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## PACIFIC PETROLEUM GEOLOGIST NEWSLETTER

of the Pacific Section American Association of Petroleum Geologists

VOLUME 30

JANUARY/FEBRUARY, 1976

NUMBER 1/2

## 1976 ANNUAL MEETING PACIFIC SECTIONS

#### April 21-24—San Francisco

This year's convention is the 51st Annual Meeting of the Pacific Section AAPG with the chosen theme "Tomorrow's Oil from Today's Provinces." The AAPG technical program will examine the geology, exploration and resources in the major energy provinces of the West Coast. The SEPM program will focus on the Neogene of the West Coast while the SEG will examine geophysical developments in exploration.

The keynote speaker, John E. Kilkenny, President of the National AAPG will present the challenge to our profession to further explore and exploit known energy provinces of the West Coast, while moving into frontier areas of exploration.

An all day field trip on Saturday will visit the East Bay area, providing an opportunity to examine outcropping reservoir rocks adjacent to oil and gas fields.

The convention will begin with a cocktail party get-together Wednesday evening and wind up with a wine tasting party Friday evening.

And, of course, for further entertainment, Fisherman's Wharf, the Palace of Fine Arts, Golden Gate Park, the Civic Center Opera House, Chinatown, Japantown, Union Square, Nob Hill, Telegraph Hill, the Cliff House, the Embarcadero Plaza, the Cannery and Ghirardelli Square are just minutes away.

Don't leave your lady companion at home, come join the fun. The Northern California Geologic Society welcomes you to San Francisco and a great time!

BOB BLAISDELL General Chairman

### NATIONAL AARG

The American Association of Petroleum Geologists will hold its 1976 Convention in New Orleans, Louisiana, May 24-26. Six Field Trips are planned.

AAPG/SEPM Trip 1. Classic Tertiary and Quaternary Localities and Historic Highlights of the Jackson-Vicksburg-Natchez Area – Friday, May 21, 3:00 p.m. through Sunday, May 23, 1976. *Leader:* C. R. Kolb, Consulting Geologist, Vicksburg, Mississippi.

AAPG/SEPM Trip 2. Weeks Island Salt Dome – Saturday, May 22, 1976. *Leaders:* D. H. Kupfer, Louisiana State University and J. P. Morgan, Louisiana State University.

**AAPG/SEPM Trip 3.** Mississippi Delta Flights – Monday, May 24-Wednesday, May 26, 1976. *Leader:* R. S. Saxena, Texaco, Inc.

AAPG/SEPM Trip 4. Geology of the Black Warrior Basin – Wednesday, May 26, 3:00 p.m.-Friday, May 28, 1976. *Leaders:* J. C. Ferm and J. C. Horne, University of South Carolina, Columbia, South Carolina.

AAPG/SEPM Trip 5. Carbonates of the Yucatan Peninsula – Wednesday, May 26 through Sunday, May 30, 1976. *Leaders:* Al Weidie, University of New Orleans, New Orleans, Louisiana, and William C. Ward, University of New Orleans, New Orleans, Louisiana.

AAPG/SEPM Trip 6. Regional Geology and Mayan Ruins of Guatemala, Central America – Thursday, May 27 through Monday, May 31, 1976. *Leaders:* H. H. Wilson, Louisiana Land & Exploration Co., New Orleans, Louisiana, and W. P. Leutze, Atlantic Richfield Co., Lafayette, Louisiana.

If you have any questions, please contact the Field Trip Chairman:

James A. Hartman P.O. Box 60193 New Orleans, Louisiana 70160

#### GSA PENROSE CONFERENCE ANNOUNCEMENT

A GSA Penrose Conference on "Evaluation of Fault Activity" is scheduled for September 26-October 1, 1976, at the Sierra Nevada Inn, at Mammoth Lakes, California. Conveners are Duane R. Packer and George E. Brogan of Woodward-Clyde Consultants.

This conference will focus upon the determination of recurrence of surface faulting and related earthquakes for individual faults and regions, including identification of active faults, and styles of deformation that are related to seismicity.

Attenance at the conference will be limited to approximately 70 participants, representing diverse disciplines, and will include international attendees. Cost of the conference, including all meals, lodging, field trips, and registration, is expected to be \$250-\$275.

Those wishing further information or to attend the conference should write to the conveners: Duane R. Packer, Woodward-Clyde Consultants, Two Embarcadero Center, Suite 700, San Francisco, CA 94111; or George E. Brogan, Woodward-Clyde Contulants, 4000 West Chapman Avenue, Orange, CA 92668. Deadline for applications is June 1, 1976.

## **CALL FOR PAPERS**

I am calling for papers in connection with the Gulf Coast Association of Geological Societies' annual meeting in Shreveport, Louisiana, October 14 to 16, 1976. As program chairman, I would like to present a high quality program with the theme—"Spirit of 1976—Energy Independence." If you have a paper suitable for presentation, please contact me as soon as possible.

> Arthur H. Trowbridge Program Chairman P.O. Box 5424 Shreveport, LA 71105

## Alaska

Greetings again from the land of long shadows and burping volcanoes. Besides the mess, being in a volcanic ash fall like we got all up and down Cook Inlet last Saturday looks too weird for comfort, and brown snow all over turns me off about as much as yellow snow around my mail box. Just hope that the three burps so far have relieved enough pressure to keep St. Augustine Island from really having a biggie.

Sorry about being so "derrick" on writin' lately-I'll try to do better the rest of the season. We enjoyed a very informative talk by Dr. Dan Busch in January. In fact it was one of the best I've heard despite almost having a heart attack when we cratered one projector just before the talk and the hastily attained replacement tended to either not move the carousel, or to skip around like Russian roulette. I'd like to compliment Dan also on his patience because I'm sure it sorta handicaps a speaker to have his talk prepared, slides in order, and still not know what is going to flash up on the screen next. I can almost predict that the AGS is going to be in the market for some new visual machinery in the near future.

For all of you ex-sourdoughs it is almost Fur Rendezvous time, an hope you all can make it back up. If not, I'll tell in my next letter whether George beat Doc, vice versa, or if we have a fast new Cheechako. Course we sorta having a slight willawaw right now and it may turn into either a canoe race or who has the fastest swimming team. This may be the first year that the Irish Setters take the Huskies. There is barely enough snow for snowballs and not nearly enough to rip across Alex Sisson's yard on my snow machine.

Sneaking in a commercial that might be of interest to those working Alaska, the AGS plans to have a collection of the 17 papers ( $\pm$  250 pages) presented at our 1975 Symposium on "Recent and Ancient Sedimentary Environments in Alaska" published in time for the Pacific Scction Convention, and a limited number of the "Cook Inlet Oil and Gas Fields" Guidebook (1970) that has been sold out for the past year or so.

Our meetings for the next few months are February 26, March 25, and on April 15 we are looking forward to a visit from John E. Kilkenny, National AAPG President and Fred (continued on page 3)

#### EXECUTIVE COMMITTEE MEETING SUMMARY OF ACTIONS

#### December 9, 1975

1. Motion passed to accept the minutes of the October 17, 1975 Executive Committee Meeting as submitted, with two corrections.

2. Sacramento is being considered as a possible alternative site for the 1978 Pacific Section Convention.

3. Motion passed to transfer \$3,192 in the treasury from the Restricted Fund to the General Fund, making some \$6,000.00 available in the General Fund for the coming year's operations.

Motion passed to distribute funds accruing from the 1974 and 1975 Conventions.

Motion passed to transfer both General Fund Savings Accounts to Ventura, California at higher rates of interest.

Motion passed to accept the Treasurer's Report as submitted.

4. 954 members have paid 1975-1976 dues.

5. Motion passed to accept recommended changes in the Constitution and By-Laws. The changes will be published in the NEWSLETTER. The final proposed changes, together with officer election ballots, will be sent out for the vote of the membership.

6. \$4,350 has been pledged to date by the oil companies and the USGS to support the publication of the Southern California Borderlands Symposium.

7. Either Governor Brown or Congressman William Ketchum is a prospective guest and speaker at the 1976 San Francisco Convention Joint Luncheon. Dr. Clarence Allen will speak on "Earthquake Prediction in China" at the SEPM Convention Dinner.

8. The 1977 Bakersfield Convention dates have been changed from May 4 through May 6, 1977 to April 20 through April 22, 1977.

9. The National AAPG is holding a seminar for members of the press and television at the end of January 1976 at Asilomar, California (north of Monterey).

#### January 23, 1976

 Motion passed to accept the Minutes of the December 9, 1975 Executive Committee Meeting as submitted.
 Motion passed to accept the

Treasurer's Report as submitted.

3. Motion passed to pay an additional \$150.00 premium for liability insurance coverage at all 1976 Pacific Section functions.

4. Over 1,000 Pacific Section members have paid 1975-76 dues. 5. Motion passed to have the Membership Directory ready for sale at the 1977 Bakersfield Convention.

6. Mr. Jim Weddle has accepted the assignment of General Chairman for the 1978 Convention which will be held in Sacramento, California.

7. Motion passed to invite the Northern California Geophysical group (headed by Bob Merts, British Petroleum and designated BAGS) and the Southern California SEG President, D. R. Mett, Union Oil, to attend the February 27, 1976 Executive Committee Meeting at Carpinteria to discuss the forthcoming 1976 San Francisco Convention and future Pacific Section business.

8. Bids for the pre-fabricated core storage building have been accepted. Completion is scheduled for February 1976 on 120 acres at the California State College at Bakersfield.

9. The 1976 San Francisco Convention, April 21-24 (Theme – "Tomorrow's Oil from Today's Provinces" is well organized; final details of the Field Trip Program and Guidebook– Convention Program, Papers, related events—activities are being completed. Motion passed to accept the estimated Convention Budget as submitted with an estimated \$6,530.00 net receipts.

10. Bill Hunter, Past President, Pacific Section AAPG, was designated Chairman of the Nominating Committee for the selection of candidates for the 1976-77 offices of Vice-President, President-Elect and Secretary. The President-Elect, E. F. Reid, becomes President for the 1976-77 term. The Treasurer, Howard Stark, serves a two-year term and will continue in office during 1976-77. Included on the same ballot will be name(s) of nominee(s) for Representative to the National Advisory Committee (Henry Neel's three-year term as Representative expires June 1976).

11. Motion passed that space at the New Orleans National Convention, May 24-26, 1976, be not purchased by the Pacific Section.

12. Motion passed to accept changes in the Constitution and By-Laws as approved by the Executive Committee and the corrected Constitution and By-Laws will be mailed out together with the 1976-77 officer ballot for the membership vote.

13. E. F. Reid will bill the oil companies for any outstanding pledged contributions to the publication of the Southern California Borderland Symposium. To date some \$4350.00 has been pledged.

14. The 1977 Bakersfield Convention, April 20-22, 1977 (Theme-"Back to Basics") is progressing. Speakers are being contacted.

#### ALASKA ...

#### (from page 2)

A. Dix, Jr., AAPG Executive Director. We are going to lobby the weatherman to postpone break-up until at least April 16th.

On behalf of the AGS I'd like to thank Bob Blaisdell for the information regarding Pacific Section Conventions. Also personally apologize to Lou Heintz for my lack of communication on executive committee meetings. Seems like ever since before the holidays that our mail must be coming up by dog-sled. Some letters have taken from 10 days to three weeks in one case. Maybe the postal service will speed up now that the price went up. Anyway Lou, I'm somewhat envious, but hope that you and your wife have a very enjoyable and unrevolutionary trip.

Buenos Snowshoes,

DICK E. ATCHISON

#### PACIFIC SECTION AAPG

Ernest W. Rennie has been selected by the Executive Committee to fill the position of Pacific Section Secretary during Louis Heintz's absence. Ernie is a geological consultant in Bakersfield and can be reached at (805) 323-9149 or 871-5568.

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#### **President's Report**

These kinds of columns are usually too long and dull to get much attention. Since you've read this far, I'll try to get you on through it as painlessly as possible.

It occurs to me that most of you haven't given much through to what the Pacific Section really is. I hadn't prior to election. Since my request in April for a recount was denied (because the ballots had already been destroyed), it has come into pretty good focus, and I'll sum it up for you. As set forth in our Constitution, "The object of this Section shall be to provide for discussion of subjects and problems coming within the scope of the profession and, by such intercourse, to promote the advancement and aims of the American Association of Petroleum Geologists as set forth in its Constitution, By-Laws and Code of Ethics." <sup>1</sup> To those ends, the Section is a confederation of cooperating local geological societies which serves as a continuing vehicle for them and for individual Section members to pool their efforts and resources to thereby accomplish more than could be done singly. This includes representation in the governing bodies of the National AAPG.

<sup>1</sup> In the AAPG Constitution, its aims are set forth in Article II:

#### **Article II: Purposes**

"The purposes of this Association are to advance the science of geology, especially as it relates to petroleum and natural gas; to promote the technology of exploring for, finding, and producing these materials from the earth; to foster the spirit of scientific research throughout its membership; to disseminate information relating to the geology and the associated technology of petroleum and natural gas; to inspire and maintain a high standard of professional conduct on the part of its members; to provide the public with means of recognition of adequately trained and professionally responsible petroleum geologists; and to advance the professional well-being of its members.'

Its By-Laws generally outline the mechanics for running the association.

Its code of ethics should be reviewed periodically by all members; basically they provide that members shall conduct themselves professionally in relations with the public, their employer or clients, and other members.

The operations of the Section are pretty much run by its Executive Committee. There was a time in years past when members from the Los Angeles area bore the brunt of these chores and, consequently, gave the Section a distinct LA flavor. The LA Basin Geological Society is, by far, the largest cooperating society and its members still contribute their full share to the work of the Section, but the management of the Section's affairs has become more truly representative of all its members. The present Executive Committee is made up of five elected officers, the Editor of the PPG NEWSLETTER, and one representative from each of its six cooperating societies. The elected officers come from four of the six local societies. Much of the work of the Section is accomplished by nine standing committees; these are currently chaired by members from five of the six local societies.

The Alaska Geological Society is still relatively under-represented in Section affairs because of logistics. Some better mechanism for AGS participation needs to be worked out. The Executive Committee even explored the possibility of holding the 1978 Convention in Anchorage with the AGS (that is, bringing the Mountain to Mohammed) but it didn't pan out. I still think it was a good idea.

In the meantime, the Sacramento Petroleum Association has made a bid for the '78 Convention; with its new convention center, Sacramento should be an excellent site and the SPA always puts on a good shindig. And this is a good place to tell you that this year's convention in San Francisco (April 21-24) promises to be a dandy. Convention Chairman Bob Blaisdell and his troops have organized a first-class program. Stan Eschner, 1977 Convention Chairman, has begun the planning phase of the '77 meeting to be held in Bakersfield.

Your Executive Committee has spent considerable time on administrative affairs in an attempt to improve the operations of the Section. Now if that doesn't make for dull reading, I don't know what does-but pay attention because you are going to be asked to vote on some of it. We have made new arrangements for some of our contingency funds in order to realize maximum interest income; various officer's expenses previously paid by the Section will no longer be so charged; and an active membership campaign, led by V.P. Bob Hindle, increased paid-up membership from a low of 814 in October to 1011 in December. These measures were designed to reduce non-critical spend-(continued on page 6)

## PROPOSED CONSTITUTIONAL AMENDMENTS

The following Constitutional amendments have been proposed by Doug Traxler, Box 2828, Long Beach, CA 90801, under the direction of the Planning and Organization Committee. Underlined portions reflect proposed changes or additions,  $\star italic \star$  portions will be deleted. These proposed amendments will be voted on by mail ballot this spring. Please address correspondence concerning these amendments to the above as soon as possible. The Executive Committee has unanimously approved the proposed changes.

#### CONSTITUTION

## PACIFIC SECTION OF THE AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS

Adopted: September 1924

Last Amended: April 1974

#### ARTICLE I Name

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

#### ARTICLE II Object

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

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

#### ARTICLE III Membership

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

#### year for the Section.

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

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

SECTION 3 Other persons not members of The American Association of Petroleum Geologists who are <u>inter-</u> ested in the activities of this Section, may subscribe to the publication of the Section "Pacific Petroleum Geologist Newsletter" subject to the approval of the Executive Committee. Non-member subscribers shall not have the right to vote or hold office but may otherwise participate in all activities of this Section.

#### ARTICLE IV Officers

SECTION 1 The officers of this Section shall be a President, a Vice-President, a President-Elect, a Secretary and a Treasurer. The duties of these officers shall be those customary for their respective offices. They shall assume these duties  $\star at$  the Pacific Section meeting  $\star$  at the beginning of the

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

SECTION 2 There shall be an Executive Committee consisting of the President, Vice-President, President-Elect, Secretary, Treasurer, Editor of the "Pacific Petroleum Geologist Newsletter" and one Representative each selected by such other cooperating geological societies  $\star$ (including the Coast Geological Society and the San Joaquin Geological Society) $\star$  as  $\star$  are at any time $\star$  approved by the then existing Executive Committee.

#### ARTICLE V Funds

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

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

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

#### PAGE 5

#### ARTICLE VI Meetings

SECTION 1 Pacific Section meetings shall be held annually or at other times on call of the President. SECTION 2 The time and place of Pacific Section Business Meeting shall be determined by the Executive Com-

#### ARTICLE VII Elections

mittee.

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

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

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

SECTION 3 This Constitution may be amended by a mail ballot. Ballots concerning constitutional amendments shall be mailed upon the authority of the Executive Committee or upon receipt by the Secretary of a Petition for Amendment signed by fifty (50) or more members in good standing. A two-thirds majority of the ballots returned and received by the Section within three (3) weeks following

mailing to the membership shall be required to pass any amendment.

#### BY-LAWS ARTICLE I Committees

#### SECTION 1 Standing Committees

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

- a. Committee on Finance
- b. Committee on Membership
- c. Committee on Planning and Organization
- d. Committee on Legislation
- e. Committee on Publications
- f. Committee on Directories
- g. Committee on  $\star Fall \star$  Field Trips
- h. Committee on Spring Picnic
- i. Committee on Conventions

#### ★Advisory.★

j. Committee on Public Affairs.

#### **SECTION 2** Appointments and Tenure

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

#### SECTION 3 Committee on Finance

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

#### SECTION 4 Committee on Membership

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

#### SECTION 5 Committee on Planning and Organization

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

#### SECTION 6 Committee on Legislation

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

#### SECTION 7 Committee on Publications

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

## SECTION 8 Committee on Directories

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

#### SECTION 9 Committee on $\star Fall \star$ Field Trips

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

#### SECTION 10 Committee on Spring Picnic

The primary function of the Committee on Spring Picnic shall be to  $\star$  plan $\star$  organize a spring picnic  $\star$ , and following Executive Committee approval, program and carry out this activity.  $\star$  which may be sponsored by a cooperating society as mutually agreed upon and approved by the Executive Committee.

#### SECTION 11 Committee on Conventions

The primary function of the Committee on Conventions shall be to submit a convention plan, and following Executive Committee approval program and carry out this activity. (continued on page 6)

#### PRESIDENT'S REPORT ....

(from page 3)

ing and to increase income without raising dues.

The \$5 annual dues are an even better bargain than they were before. For example, this is what membership in the Section gets you now: 1. The PPG NEWSLETTER; 2. A \$5 discount on registration fees at the annual convention; 3. A rebate of \$2 to your local society to support such things as local appearances of distinguished lecturers; 4. Notices of geological meetings; 5. Listing in the joint membership directory of the Pacific Sections of AAPG, SEG, and SEPM; 6. Ready availability of publications of the Section and of local societies; 7. The satisfaction of contributing to the support of worthwhile geologic publications that might not otherwise be published or available, such as Bob Kleinpell's revision of his classic Miocene Stratigraphy of California and the forthcoming Southern California borderland symposium. We've tried to figure out a way to provide a copy of the Directory to each member within the present dues structure, but that may be impossible.

You will soon be asked to approve some proposed amendments to the Pacific Section Constitution. The purpose of the proposal is to make the term of officers (currently late April to late April) and the budget and tax year (currently January 1 to Decem-ber 31) coincide with the member-ship year (July 1 to June 30). This should reduce confusion and increase accountability; the officers are usually confused enough about the matters for which they are or are not responsible without being further confused about the periods for which they are accountable. If the revisions are approved, it will stretch the term of next year's president, Bud Reid, a couple of months (I think!); gaining IRS approval for a change in tax-year is relatively simple, according to our accountant. Thereafter things should proceed in a little more orderly fashion, at least on paper.

If you have read this far, you are indeed a dedicated member of the Pacific Section AAPG and have earned your \$5 registration fee discount. See you in San Francisco! WES BRUER



NO REPORT.

#### AMENDMENTS ... (from page 5) SECTION 12 Committee on Public Affairs

The primary function of the Committee on Public Affairs shall be to disseminate knowledge, following Executive Committee approval, to the membership and other relevant entities, about subjects within the scope of the profession.

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Dr. Dan Busch, an AAPG distinguished lecturer, delighted a hungry and thirsty audience of 170 in his discussion of "Integrated Disciplines in Petroleum Exploration." Exploration techniques in northern Mexico were described in relation to Busch's model organizational chart. Dr. Dan kept our attention with statements such as "37 out of 37, just as I predicted." If we all could . . . It was a great meeting.

We are looking forward to Donald Ziegler, Chief Geologist, Standard Oil Co. of Calif. and his discussion of "Offshore Oil and Gas, Past, Present and Future" in February, and J. N. Sonosky, Senior VP-Natural Resources Division, United California Bank, and his talk "The Energy Picture, Past, Present and Future" on March 9th. The SJGS is planning to bring us up to date on our industry and its future. Send in those reservations!

Last year the SJGS voted to donate \$500 to the Kern County Public Library, Main Bakersfield Branch, to help update its geology reference section. Guidebooks and special publications from SEPM, AAPG Memoirs, and new texts relating to our industry make up the bulk of the donations. The new additions give our public library one of the most complete geologic reference sections anywhere. We all should be proud of it—be sure to use it.

The National AAPG recently requested a brief history of the SJGC to be published in the *Bulletin* in the near future. Information is needed to make the history complete. Please send any such information to:

> San Joaquin Geological Society P.O. Box 1056 Bakersfield, California 93302 Attention: Jeff Smith

The SJGS is planning to begin a membership program intended to add new members and better communicate with current members, the results of which will be to inform everyone of our present and future activities. Our officers are now focusing energy towards timely arrival of reservations for our 2nd Tuesday of each month dinner meetings such that sufficient food and drink will be available to all comers. Again, send in those reservations!

JEFF SMITH



On December 16, the Coast Geological Society enjoyed a film and brief talk presented by William Brisby, instructor at Moorpark College and Director of the Ventura County Marine Biology Institute. The film, which has been viewed by over 16 million people, showed the abundance of marine life around Rincon Island over 300 species—and compared it to the approximately one dozen species remaining on the mainland at Mussel Shoals. (Rincon Island, less than onehalf mile off the California Coast. Wildlife is protected on and around this island.)

Folowing the film Mr. Brisby commented on how marine life on the island protected itself following the 1969 blowout. He also pointed out that in certain other areas organisms which were unaffected by the oil were destroyed during a clean up operation when the rocks were steam cleaned.

On January 12, Dr. Daniel Busch, AAPG Distinguished Lecturer, discussed "Integrated Disciplines in Petroleum Exploration." This was an interesting lecture which was presented to several other Southern California audiences.

Members of the CGS are looking forward to hearing John Kilkenny, AAPG President, give a double barreled talk on February 17th. He will discuss "AAPG Affairs" followed by "Geothermal Prospects in the Western United States."

On March 16th, Martin Link of Los Angeles Harbor College will discuss "Tertiary Submarine Fans of California."

The Coast Geological Society will host the Pacific Section spring picnic on June 4th. It will be held at Ferndale Ranch through the courtesy of Thomas Aquinas College and will follow the traditional golf tournament at Elkins Ranch Golf Course. In addition to the golf tournament, other activities will include a field trip and a "closest to the pin" contest, held at the "amazing one-green-multiple-teegolf-course" on Ferndale Ranch. TOM HOPPS LOVE STORY. It happened when he was shuffling up Hill Street in San Francisco, lined with honky tonks and bars, tired feet aching, wishing he had the price of a drink. There, after 10 years he saw her again. She was seated alone at a small table in front of a bistro on the North Beach sidewalk, sipping something pink in a glass.

Can it be Angela? Yes, he decided it was. And the same old pink gin. She must have sensed the shock of recognition for she looked up as he approached and met his eyes. Incredible! He smiled. She frowned. He placed his shabby hat over his heart and held out his hand.

"Angela. How wonderful to see you again." He pulled out a chair and sat down at the table.

"Hello Henry," she breathed. I'm Agatha, remember? But it has been so long, hasn't it."

"Oh, yes of course, Agatha. Yes, a long time indeed. I'm Horace. The years do pass, don't they."

He noticed a few wisps of gray under the small light colored straw hat, tilted slightly so that the two ends of a lime-green ribbon hung down to match the jade earings.

"Do you still work for that oil company, Agatha? Let me think nowyou were a receptionist, weren't you? What was the name of that outfit? U S Geo . . . Geo . . . something or other, wasn't it?"

"No, dear. That must have been Helen. I worked for B & B for a while, until I got married. Then my husband made me quit, remember?"

"Oh yes, B & B. Old man Brab . . . Bolg . . . and his son. Yes, I do remember. The son was pretty sweet on you, wasn't he?" Her eyes dropped and he noticed the deep blue shadow on the lids. A little thick, he thought. Years ago when they had slipped out of Menlo Park and spent the weekend at Aptos, she hadn't worn nearly so much makeup. She was beautiful then. They had laid out on the warm sand and after trickling a small stream of sand on her smooth stomach, he had rolled over and laid his head on her breast. His eyes dropped to her stripped jacket over a low-cut beige waist. No, that must have been Graceie, he thought. Women do change so. He must be careful.

"And you, Henry," she was saying. "You do look so well-and prosperous. The years have been good to you, haven't they?"

"Horace. Well, they've been so-so. For a while I rough-necked on a drilling rig and then I switched over to Chief Geologist for the company. Married the boss's daughter, you know. The old man took me into the family and ..."

Blue eyes came alive with excitement. "Really? Who was she? She must have been lovely. Tell me about her, Henry."

He flicked at a fly arrogantly cleaning his legs on the table. Oh, hell, let it go. "Well . . . it turned out . . . well, you know. She was selfish. Just Godawful selfish. I divorced her."

"Oh, how sad." Her eyes dripped pity. Or was it smugness. "The last I heard, you were working for the city, weren't you? For Mayor . . . Oh, you know, that funny name. What was it?"

"Yes, for a while. Mayor Bag . . . No, Fos . . . He had a beard. Well, he and I didn't see eye to eye. I guess I'm too independent."

She was twisting the thin gold ring mounted with a tiny amethyst around the third finger of her left hand. Her eyes softened with emotion into his.

"I'm sure you must have been very good at your job, Henry. Very, very good." Their eyes clung.

"Angela, dear." He felt a small shiver trickle across his stomach and he leaned forward on the table. "You know something? You know what I think? We should have married. You and I. What good years, what wonderful years we would have had. But then, you married another, didn't you. I do hope he's still good, good, good to you. Who was he?"

For a moment she gazed at him, pathos swimming in starlit eyes. Then she laughed, leaned back and gave a little pat on the top of her little straw hat. "Oh hell, Henry. Damned if I remember. It was so long ago."

She was gone. He sat thunderstruck. The waiter was moving about. Should I have a drink, he thought, or just coffee. Then he reached over and finished off the pink stuff left in her glass.

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BY THE WAY. You who missed the last NCGS meeting at the old Leopard Cafe missed a crush. One hundred and eighty (180) of the faithful struggled for elbow-raising room around the bar, then shuffled in tight mass slowly into the dining room. Shades of the New York subway. An overflow chawed determindly or paperthin roast beef outside the dining room doors and then jammed themselves into the packed meeting room to listen to Dr. J. Tuzo Wilson of the University of Toronto speak on Plate Tectonics.

"The trouble with the old theories of continental origin," he said in effect, "was that you can't fit a mobile concept into a static framework." Dr. Wilson's machine gun delivery kept the sweating masses wide awake with excellent slides and a highly knowledgeable discussion of the modern theory. Doubtless, all who chawed and squeezed went home with a deeply satisfied feeling inside although maybe a little bruised outside.

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NARKOTICKS. Herb Caen's reference (SF Chronicle, Jan. 5, 1976) to "Hors de Combat, that old fractured French phrase for camp followers" brings to our laughable mind an incident in Korea c. 1953. One Major ....., Provost Marshal of the 25th Infantry Division, was nursing his drink in our comfortable little Seoul Club made over from a bombed-out residence. A little brief-skirted waitress hovered nearby.

"The General was worried," he said, "about the big increase in VD among his troops so he ordered me to round up all the girls living in cardboard shanties in the Division area and get 'em the hell out of his area. The farther back, the better. Well, I did that. Took a long day for the round-up, five trucks and a three-hour trip to Wonju about fifty miles to the rear that night. The next afternoon we returned to Division and found that, with all the traffic going and coming, the girls had beat the trucks back."

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BEFORE WE FORGET. Old what's his name is back from Africa. Remember him . . . Rod . . . Rod . . . the guy who found all the oil for that outfit in Libya? You know who I mean. Well, we ran across him at the old Leopard Cafe last Wednesday. He said he was teaching a course in geography at one of the Junior Colleges down south-Cal . . . something. He said one of our mutual friends had died last month, Bob For . . . or Fen . . . no, it was Sig something. Fine guy. Wonderful guy. Give me time. I'll remember his name We felt terrible about it. We both did. when I'm soaking my arthritis in the Jac . . . ah . . . that white frothy stuff and then I'll quick write it down and yet you all know. If I can find the note.

#### Faithfully,

OTT ... WHOZIS

#### FEA ISSUES FINAL REPORT ON OIL & GAS RESERVES

The United States had proved reserves of 38.0 billion barrels of crude oil and 240.2 trillion cubic feet (tcf) of natural gas as of December 31, 1974, according to the *Final Report* on Oil and Gas Resources, Reserves, and Productive Capacities released by the Federal Energy Administration.

The FEA report is based on a yearlong survey of operators of oil and gas fields in the United States. Responses were received from nearly 12,000 active operators representing 97 percent of oil and 95 percent of natural gas production in the Nation.

The report also provides summaries of engineering studies of 59 major domestic oil and/or gas fields representing over half the Nation's proved crude oil reserves and about 30 percent of U.S. natural gas reserves. These studies were made as an independent check of the reserve estimates submitted by operators.

Information in the report is required under Section 15(b) of the Federal Energy Administration Act of 1974.

The report indicates proved oil reserves in the U.S. to be 11 percent higher than figures previously published by the American Petroleum Institute (API). Nearly half the difference between the FEA figures and the API estimates results from reserves in California. Operators estimated a much higher recovery from the heavy crude oil-producing fields in that State than did the API.

## **BOOK REVIEW**

#### 1975 Guidebook of the New Mexico Geological Society

"Las Cruces Country" is a comprehensive 376-page volume prepared for the 26th Annual Field Conference of the New Mexico Geological Society held in the vicinity of Las Cruces in south-central New Mexico on November 12-15, 1975. This hardcover book contains detailed geological roadlogs into the San Andres Mountains, Sierra de Las Uvas, Aden Crater, Mesilla Valley, Cedar Hills, Seldon Canyon, San Diego Mountain, and Rincom Valley. Exit logs to the north, west, south, and east are also included.

In addition, the guidebook contains 41 articles on the history, botany, stratigraphy, paleontology, petrology, economic geology, environmental geology, hydrology, geothermal activity, structure, and geophysics of southcentral New Mexico. The tectonics of the Rio Grande rift receives special attention in several papers and a large multicolor map features the structure of the Rio Grande region from Colorado to Texas.

"Las Cruces Country" priced at \$22.00 postpaid is available from the Society at the address given below. All previous 25 guidebooks are also available as is a free price list.

New Mexico Geological Society Campus Station Socorro, New Mexico 87801





Re: the announcement just received of the

#### "Annual Meeting Pacific Sections"

May I take this means of publicly offering heartiest congratulations to the author (to me unknown) of the paragraph on "College Alumni Luncheon" for concocting what should surely rate as the malapropism of the year: "conjugate . . . together." It's wonderful! (But now I'll have to bring my old Latin grammar to that meeting, for I was never very good at conjugating verbs).

And then, to the same author, I would suggest a slight slap on the wrist for confining the "conjugation" to "alumni from all United States Universities." I'm sure that the exclusion of our Canadian friends, and graduates of foreign universities was quite unintentional.

IAN CAMPBELL

Angeles

NO REPORT.

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

## PACIFIC PETROLEUM GEOLOGIST NEWSLETTER

of the Pacific Section American Association of Petroleum Geologists

VOLUME 30

MARCH/APRIL, 1976

NUMBER 3/4

## REGULATIONS ADOPTED ON APRIL 30, 1975 TO DEFINE THE PRACTICE OF GEOLOGY AND GEOPHYSICS

Subsection (n) of Section 3003 of the regulations:

3003. (n) Practice of Geology or Geophysics.

(1) The practice of geology or geophysics "for others" includes but is not limited to the preparation of geologic or geophysical reports, documents or exhibits by any commission, board, department, district or division of the state or any poltical subdivision thereof or of any county, city or other public body or by the employees or staff members of such commission, board, department, district or division of the state or any political subdivision thereof or of any county, city or other public body when such reports, documents or exhibits are disseminated or made available to the public in such a manner that the public may reasonably be expected to rely thereon or be affected thereby.

(2) The practice of geology or geophysics "for others" includes but is not limited to the performance of geological or geophysical services by any individual, firm, partnership, corporation or other association or by the employees or staff members thereof, whether or not the principal business of such organization is the practice of geology or geophysics, when the geological or geophysical reports, documents or exhibits constituting the practice of geology or geophysics are disseminated or made available to the public or any individual or combination of individuals other than the employees or staff of such organization in such a manner that the public or said individual or combination of individuals may reasonably be expected to rely thereon or be affected thereby.

(3) Geological or geophysical reports, documents or exhibits which are prepared by the employees or staff members of any individual, firm, partnership, corporation or other association or commission, board, department, district, or division of the state or any political subdivision thereof or of any county, city or other public body which are for use solely within such organization are considered "in-house" reports, documents or exhibits and are not the practice of geology or geophysics for others unless or until such reports are disseminated or made available as set forth in subsection (1) or (2).

### NATIONAL AAPG CONVENTION

The New Orleans Geological Society will host the AAPG-SEPM Annual Convention May 23-26, 1976. The meeting promises to be one of the best, and probably one of the biggest, sponsored by the societies in many years.

More than 250 technical papers will be presented in 34 sessions, in addition to the 50 plus papers to be pre-sented in the new Poster Sessions on Tuesday and Wednesday. Six exciting field trips have been planned, two of which will be conducted outside U.S. boundaries. There will be three short courses on Saturday and Sunday in addition to the usual SEPM Research Colloquia. And, for fun, justa glance at the list of entertainment activities and especially note the Tuesday evening cruise down the mighty Mississippi on board the S.S. President and the Wednesday All-Convention Luncheon featuring Cajun cooking. Also, we have just learned that Wil-liam E. Simon, Secretary of the Treasury, has agreed to present the address at the All-Convention Luncheon. To insure availability of tickets to these special events, be sure to sign up early.

SHELBY W. SMITH Publicity Chairman

### GROUP FLIGHTS 1976 AAPG CONVENTION NEW ORLEANS

#### May 24, 1976 May 26, 1976

Group space has been reserved for AAPG members planning to fly to New Orleans for the 1976 Annual Meeting. Group airfares are normally available for groups of 10 or more, originating on the same flight, and the return flight can be on an individual basis provided the same airline is used within a 30 day period. No minimum stay is required. Group Fares will be lower than regular round trip airfares. Note: Airfares are subject to change by the airlines. The lowest airfare on the date of departure will be used. The following airfares are approximate and subject to change, but they will provide an idea of the savings of group travel:

DEPARTURE	REGULAR	GROUP
Amarillo	\$153.47	\$115.47
Billings	263.47	232.47
Calgary	348.99	299.99
Denver	192.73	143.73
Dallas/Ft. Worth	108.73	81.73
Houston	84.73	59.73
Midland	149.47	112.47
Tulsa	121.73	97.73
Oklahoma City	127.47	102.47
Los Angeles	268.73	214.73
San Antonio	116.73	75.73
Salt Lake City	240.73	180.73
Jackson	58.73	43.73

Send all replies to:

Travel Unlimited, Inc. AAPG Flights P.O. Box 25187 Houston, Texas 77005 Attention: Connie Burke

. . .

or from the Los Angeles area: Westwood World Travel, Inc. 1081 Westwood Blvd. Los Angeles, California 90024 Attention: M. L. Irwin (213) 477-8501 PAGE 2

## Pacific Section SPRING PICNIC

Plan to attend the Pacific Section Spring Picnic on June 4th. It will be held at historic Ferndale Ranch, future site of Thomas Aquinas College. The festivities at Ferndale Ranch will include steak and liquid refreshment, volleyball, horseshoes, and a closest to the pin contest on the "amazing one-green-multiple-tee-Ferndale Ranch-golf course."

Preceding the picnic will be the traditional golf tournament at the Elkins Ranch Golf Course or a field trip led by Dr. Manley Natland. Field trippers will review Pliocene and Miocene sediments along Santa Paula Creek, up Wheeler Canyon, and across Santa Paula Canyon Oil Field, an old and picturesque area. A guide book will accompany the field trip and a Tectonic Map of a portion of the Ventura Basin will also be available.

#### TOM HOPPS



John Kilkenny, AAPG President, hit the Coast Geological Society with both barrels in February when he brought us up to date on AAPG affairs and followed with a geothermal talk—both very impressive. We were further impressed with his knowledge of AIPG, APGS, and their seals and certificates.

At the March meeting, Martin Link addressed us on "Eocene Deep Sea Fans of California" with examples from Matilija sandstone, The Rocks sandstone, Scripps Formation, and Jolla Vieja Formation. It was an excellent talk with a great deal of local interest.

By the time this hits the newstands the CGS will have held their first meeting in Santa Barbara in several years. Dr. Jim Boles, UCSB, will discuss "Diagenesis of Volcanogenic Sandstones, Southland, New Zealand."

On May 18, at the Wagon Wheel Restaurant in Oxnard, John Truex will end the season with a talk on "Development of the Pre-Middle Miocene Santa Barbara Basin."

The CGS will host the Pacific Section Spring Picnic on June 4th. It will be held at Ferndale Ranch following the Elkins Ranch Golf Tournament and the field trip led by Dr. Manly Natland. Plan to attend—it's gonna be a good 'un.

TOM HOPPS



SAVE YOUR MONEY for the next big Circum-Pacific Energy and Mineral Resources Conference coming up in Honolulu, Hawaii from July 31 to August 5, 1978. Should be a good one. General Chairman is Don Henricksen, Atlantic Richfield, Los Angeles and Vice-Chairman is John C. Maher, USGS, Menlo Park. John Kilkenny, in charge of the Technical Program, will be calling soon for papers. You'll be hearing a lot about the Conference from Dave Pfeiffer, the Publicity Chairman.

An important result of the first conference in 1974 was the finalizing of plans for compiling a comprehensive set of geologic and geographic maps assembled from international contributions and to be made available to all the Circum-Pacific nations concerned. Progress through 1976 would appear to insure that the first manuscripts of most of the maps will be available at the second Honolulu Conference in 1978.

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OLD, OLD STORY. The origin of sale and leaseback of real estate might go back some 763 yars when the Bad King John of England quarreled with the strong Pope Innocent III who insisted that one Stephen Langton became the next Archbishop of Canterbury. King John angrily refused and seized the church estates of Canterbury. The Pope placed England under an interdict, suspending church services, scraments, and burial in consecrated ground. John responded by seizing all the lands of the Church and, in 1209, Innocent informed John, his "dear son," that he was excommunicated. Anyone remaining loyal to John placed his own soul in jeopardy.

King John gave up at last. In 1213 he accepted Stephen Langton as the Archbishop of Canterbury. He deeded his kingdom of England and Ireland to the papacy and received it back as a fief for which he agreed to pay a tribute of 1000 marks a year. No doubt he cringed again when Stephen Langton released him from excommunication.

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BIGGEST EVENT in NCGS immediate future is the Pacific Section convention in San Francisco April 21 to 23, soon to arrive. Bob Blaisdell and friends have put together an excellent program with lots of trimmings for young and old alike. The old grads from all the schools can conjugate together at the alumni luncheons. Ian Campbell says he'll probably have to bring his old latin grammar as he was never strong on conjugation.

OTTMAR F. KOTICK

### NEW MEMBERSHIP SECRETARY

Judy Hughes' duties as membership secretary will be assumed at the close of the San Francisco Convention by Betty Bean, Union Oil Company, 2700 "F" Street, Bakersfield, California 93301. Phone (805) 324-6571.

On behalf of the Executive Committee and the membership, I wish to thank Judy for her years of dedicated service as the focal point for much of the Section's business. We recognize that the monetary compensation is only a token amount, that these services were primarily on a voluntary basis, and that the Section undoubtedly took advantage of her good nature too long.

WES BRUER, President

#### ROCKY MOUNTAIN GROUND-WATER CONFERENCE

Rocky Mountain Ground-Water Conference, May 12-14, 1976, Denver, Colorado. Impact of Mining and Energy Development on Ground-Water Resources. Four major sources of energy-Oil Shale, Uranium, Coal, and Geothermal will be emphasized through keynote speeches and panel discussions. Panel discussions will be held on: Exploration; Legal Controls; Environmental Considerations; and Mining and Development. For more information or registration forms contact: Richard H. Pearl, Room 254, 1845 Sherman Street, Denver, Colorado 80203 (303/892-2611).

RICHARD H. PEARL Publicity Chairman

#### **NEW PUBLICATIONS**

Pacific Section AAPG Miscellaneous Publication 24:

"Aspects of the Geologic History of California Continental Borderland," edited by David G. Howell.

This publication will be available at the forthcoming Pacific Section AAPG Convention in San Francisco on April 21 to 23.



As a retired member of AAPG I have AAPG Bulletins from 1943-1971 (Vol. 27 thru 55) for sale. If you are interested, please contact:

> John J. O'Keeffe 5280 Atherton Street #131 Long Beach, California 90815

We are pleased to announce that Mr. J. Perome (Jerry) Williams, formerly Vice President and Manager of Occidental's U.K. Exploration and Production subsidiary, has joined Paul N. McDaniel and the ERICO Group of Companies.

ERICO Research Laboratories Ltd. Tannery House, Tannery Lane Send, Woking, Surrey England

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We plan to have an Employment Interviews Center at the upcoming

PACIFIC SECTION — AMERICAN ASSOCIATION PETROLEUM GEOLOGISTS Executive Committee	
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(805) 324-4 President Elect	EID
	771
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Association Petroleum Geologists is publ	isnea
monthly by the Pacific Section.	
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Material received by the 10th of each month be included in the following issue.	will
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CHANGE OF ADDRESS, subscription, membership inquiries should be directer MEMBERSHIP SECRETARY, PAC SECTION AAPG, P.O. BOX 17486, SECTION AAPG, P.O. BOX 17486,	and
membership inquiries should be directed	to:
MEMBERSHIP SECRETARY, PAC	IFIC
SECTION AAPG, P.O. BOX 17486,	FOY
STATION, LOS ANGELES, CALIF. 90	017.

AAPG-SEPM Annual Convention in New Orleans on May 23-26, 1976. I would appreciate your mentioning this service to your members at the next society meeting and in your local Newsletter.

Several good positions need to be filled and a large turnout for this Convention is expected. If any firm is interested in participating, they should contact me in care of:

> Southport Exploration, Inc. 1360 Saratoga Building New Orleans, Louisiana 70112 (504) 586-9227

Geologists possibly interested in changing jobs should register beginning at 8:00 a.m. on Monday morning, May 24, on the second floor of the Headquarters Hotel, Braniff Place.

Times are good and opportunity abounds. I hope our fellow geologists can utilize these services to further their professional careers.

> JAMES S. CLASSEN Chairman Employment Interview Committee 1976 AAPG-SEPM Annual Convention

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You may never have heard of the Wildcat Committee of the Western Oil and Gas Association, but each year we put on a Gridiron-type show for approximately 1,800 oil company people at the Hollywood Palladium. One of the functions of the Wildcat Committee is to raise money for the R. M. Pyles Boys Camp, a fine oilfield-supported charity which provides summer camp for many underprivileged children through our annual Hi-Jinks and an invitational golf tournament.

As part of our show which was held in early December 1975, each attendee was given a copy of what we called a Declaration of Independents. We think this Declaration tells the story that all Oilmen need to tell—about the Oil Business and our Government.

We have had great interest from Industry groups, both in and out of our Industry, so we are enlisting your help to get our story to the people.

If you are interested in supporting this effort, please contact us. "The Wildcat Committee, c/o Western Oil and Gas Association, 609 South Grand Avenue, Los Angeles 90017. The price for reprints is reasonable and all monies are paid directly to the R. M. Pyles Boys Camp and are qualified charitable deductions.

> PAUL L. HOWARD, Chairman Wildcat Committee

#### POLITICO — GEOLOGY The Increasing Role of Government in Geology

A Symposium Sponsored by the California Section – American Institute of Professional Geologists Wednesday, April 21, 1976 Golden Gateway Holiday Inn (Van Ness at Pine) San Francisco

LUNCHEON – Crystal Room, 12:00 noon.

Speaker: Mr. Loyd Forrest, Executive Director, California Energy Resources Conservation and Development Commission, will speak on the role of this new agency, emphasizing seismc issues and power plant siting. The commission's responsibilities also include the forecasting and research and development of state energy supplies.

SYMPOSIUM and PANEL DISCUS-SION – Washington-California

Room, 1:45 - 5:00 p.m.

Moderator: Mr. Robert H. Paschall, AIPG.

Dr. Robert A. Mathews, Assistant Dean, Department of Environmental Studies, UC Davis.

Mr. Robert Testa, Staff Consultant, California Senate Committee on Natural Resources and Wildlife.

Mr. Larry Moss, Executive Director, Planning and Conservation League.

Mr. Thomas E. Gay, Acting State Geologist, California.

Mr. John E. Wolfe, Executive Secretary, State Board of Registration for Geologists and Geophysicists.

Mr. Loyd Forrest.

The panel will discuss current legislative and regulatory activities affecting energy and mineral resource development, geologic hazards, the Coast Plan and other land use issues, disclosure of well data, registration of earth scientists, and other aspects which affect the working lives and professional responsibilities of earth scientists in California. Ample opportunity will be provided for questions and discussion. All earth scientists are welcome to attend the luncheon and/ or the afternoon session. Pacific Section AAPG, SEG and SEPM members and others coming to San Francisco for the Pacific Section Convention are urged to arrive a few hours early and participate in this symposium.

For further information, contact: Mr. J. W. Fusso, AIPG

575 Market Street, Room 1426 San Francisco, CA 94105

## **Fifty-First Annual Meeting**

## TENTATIVE TECHNICAL PROGRAM PACIFIC SECTIONS - AAPG, SEG, SEPM

#### THURSDAY MORNING — APRIL 22 JOINT AAPG, SEG, SEPM

- 9:00 a.m.—Keynote Address: "Yesterday, Today and Tomorrow," John E. Kilkenny, President, AAPG
- 9:30 a.m.-"Exploration Potential of Southern California," George H. Feister and Edward A. Hall, Union Oil Co.
- 10:00 a.m.-Break
- 10:30 a.m.—"Reservoir and Source Bed History in the Great Valley," Donald L. Zieglar\* and John H. Spotts, Standard Oil Co. of California
- 11:00 a.m.-"Exploration Potential of Alaska," Thomas H. Neel, Atlantic Richfield Oil Co.
- 11:30 a.m.—"Seismic Stratigraphy—A New Breakthrough in Geological-Geophysical Coordination," Milton B. Dobrin, University of Houston

#### JOINT LUNCHEON

#### THURSDAY AFTERNOON — APRIL 22 — AAPG

- 2:30 p.m.—"Geological Estimates of Undiscovered Oil and Gas Resources in the U.S.," Betty M. Miller and Harry L. Thomsen, U.S. Geological Survey
- 2:55 p.m.—"New Oil & Gas from Mature Provinces," J. H. Dorman, Tenneco Oil Co.
- 3:20 p.m.-"Upper Cretaceous Lithofacies Model, Sacramento Valley," K. F. Drummond,\* K. D. Berry, and E. W. Christensen, Standard Oil Co. of California
- 3:45 p.m.—"Late Cretaceous Turbidite Sedimentation and Submarine Fan Facies of the Great Valley Sequence, Northern and Central California," Raymond V. Ingersoll, Stanford University
- 4:10 p.m.–"Geologic Framework of Lower Cook Inlet with Emphasis on Onshore Geology," Leslie B. Magoon, U.S. Geological Survey
- 4:35 p.m.—"Geology of the Offshore Lower Cook Inlet from Seismic Data," by Michael A. Fisher, U.S. Geological Survey

#### THURSDAY AFTERNOON — APRIL 22 — SEG

- 2:30 p.m.-"Recent Results in Earthquake Prediction," John H. Healey, U.S. Geological Survey
- 2:55 p.m.—"Regional Velocity Reduction," John Sherwood," David Judson, B. Meadours, Digicon, Inc., and J. Sattlegger, Sattlegger Ingenieuburo, Hasesfasse, West Germany
- 3:20 p.m.—"Processing of Non-Straight Seismic Lines Using the 'Slalom Line' Metho," D. Paturet and C. Dickoff,\* Compagnie Generale de Geophysique
- \* Designated Speaker.

- 3:45 p.m.—"Side Scan Sonar: Application in Oil Exploration and Exploitation," W. D. Jenkinson, Texaco, Inc.
- 4:10 p.m. "Seismic Data Analysis with Time Seiscrop Map Techniques," Ben F. Giles,\* Marion R. Bone, and Edward R. Tegland, Geophysical Service Inc.

#### THURSDAY AFTERNOON - APRIL 22 - SEPM

- 2:20 p.m.—"Environmental and Time Significance of Local Guide Fossils, Lisburne Group, Northeast Alaska," Kenneth J. Bird, U.S. Geological Survey
- 2:40 p.m.—"Clast Populations in Sespe and Poway Conglomerates, Southern California," John A. Minch,\* Saddleback College; Keith N. Gibson and Gary L. Peterson, San Diego State University
- 3:00 p.m.—"Foraminiferal Zonation of the Refugian Stage, Uppermost Eocene of California," Ann Tipton, Consultant
- 3:20 p.m.—"Nannoplankton Biostratigraphy of the Upper Sacate and Gaviota Formations, Arroyo el Bulito, Santa Barbara County, California," A. D. Warren\* and J. H. Newell, Anderson, Warren & Associates
- 3:40 p.m.—"Late Miocene Paleobathymetry of the California Continental Bordtrland North of 32°," Robert E. Arnal\* and John G. Vedder, U.S. Geological Survey
- 4:00 p.m.—"Volcanic Ash Partings in Coals: Characteristics and Stratigraphic Significance," Don M. Triplehorn, University of Alaska, Fairbanks
- 4:20 p.m.-"A Review of the Estimates for the Radiometric Ages for the Relizian Stage," David G. Howell, U.S. Geological Survey
- 4:40 p.m.—"Elements of Tectonism Deduced from Miocene Strata, Northern Channel Islands, California," Hugh McLean\* and David G. Howell, U.S. Geological Survey
- 5:00 p.m.—"Miocene Volcanic and Volcaniclastic Rocks of Santa Cruz Island; Evidence for Offset Along the Santa Cruz Island Fault," Bruce M. Crowe, David G. Howell, and Hugh McLean, U.S. Geological Survey

#### FRIDAY MORNING - APRIL 23 - AAPG

- 9:00 a.m.-"A Possible Role of Nitrogen in the Formation of Petroleum Deposits," George A. Sellers, U.S. Geological Survey
- 9:25 a.m.—"Tar Sands Give Clue to Search for Supergiant Oil Fields," G. J. Demaison, Chevron Overseas Petroleum Inc.
- 9:50 a.m.–Break

- 10:20 a.m.—"The Prudhoe Exploration Region: Summaries and Projections Based on Publicly Available Information," I. L. Tailleur, U.S. Geological Survey, and G. H. Peccel, State of Alaska—Division of Geological and Geophysical Studies
- 10:45 a.m.—"The Ipewick Group: An Unique Jurassic-Lower Cretaceous Section on the North Slope of Alaska," R. C. Crane and V. D. Wiggins, Standard Oil Co. of Calif., I. Tailleur, U.S. Geological Survey
- 11:10 a.m.—"Salinas Valley, Today and Tomorrow," Thomas A. Baldwin, Consulting Geologist
- 11:35 a.m.—"Role of the Small Independent in Tomorrow's Oil," Ted Off, Ojai Oil Co.

#### FRIDAY MORNING — APRIL 23 — SEG

- 9:00 a.m.—"The Commercial Application and Interpretation of the Borehole Gravimeter," J. W. Bradley, Amoco Production Co.
- 9:25 a.m.—"Interpretation of Seismic Data from Derived Velocity Logs," R. O. Lindseth, Teknica Resources Dev.
- 9:50 a.m.—"Wave-Equation Migration: Two Approaches," K. Larner\* and L. Hatton, Western Geophysical Co.
- 10:15 a.m.–Break
- 10:45 a.m.—"The Slant Wave Stack," Jon F. Claerbout, Philip S. Schultz,\* and Raul Estevez, Stanford University
- 11:10 a.m.-"Application of Surface Consistent Corrections," Don W. Frye\* and M. Turhan Taner, Seiscom Delta, Inc.
- 11:35 a.m.—"Gravitational Evidence for More Alaskan Sedimentary Basins," David Barnes, U.S. Geological Survey

#### FRIDAY MORNING — APRIL 23 — SEPM

- 9:00 a.m.—"Neogene Tectonics of the Central Ventura Basin, California," Robert S. Yeats, Ohio University
- 9:20 a.m.—"Late Neogene-Quaternary Tectonics and Depositional Environments of the Santa Barbara Basin, California," P. J. Fischer, California State University, Northridge
- 9:40 a.m.—"Patterns of California Continental Borderland Sedimentation: Derived from Late Pleistocene and Holocene Studies," D. S. Gorsline, University of Southern California
- 10:00 a.m. "Paleo-Oceanographic Variations and Their Implication to Paleobathymetric Interpretation," Gregg H. Blake\* and Robert G. Douglas, University of Southern California
- 10:20 a.m.—"New Evidence for the Age of the Cenozoic Salt Lake Beds in the Northern Great Basin," Patrick H. McClellan, University of California, Berkeley
- 10:40 a.m.-"Late Neogene Paleobathymetry and Paleoenvironments of the Humboldt Basin, Northern California," James C. Engle, Stanford University
- 11:00 a.m.-"Dispersal, Distribution and Thickness of Holocene Sediments on the Continental Shelf, Northern Gulf of Alaska," Paul R. Carlson, Bruce F. Molnia and Erk Reimnitz, U.S. Geological Survey
- 11:20 a.m.-"Sedimentary Serpentinite of the Miocene Big Blue Formation near Cantua Creek, California," Tom Ann L. Casey,\* Sun Oil Co., Houston, and William R. Dickinson, Stanford University
- 11:40 a.m.—"Holocene Shelf Sedimentation Patterns Determined by Multivariate Statistical Analysis of Heavy Mineral Data—Monterey Bay, California," Melvyn L. Rappeport, Stanford University

#### **ALUMNI LUNCHEONS**

#### FRIDAY AFTERNOON — APRIL 23 — AAPG

- 2:30 p.m.—"Applications of Plate Tectonics to Petroleum Geology Along the Pacific Margin of North America," William R. Dickinson,\* Stephan A. Graham, Raymond V. Ingersoll and Teresa Jordon, Stanford University
- 2:55 p.m.—"Use of IR Color Photography and Canyon Photos in Photo-Geologic Mapping, Central Brooks Range, Alaska," Spencer J. Reber, Standard Oil Co. of California
- 3:20 p.m.—"A Satellite-look at the Regional Geology of Northern California," Ernest I. Rich, Stanford University
- 3:45 p.m.—"Depositional and Tectonic History of the San Francisco Bay Region East of the San Andreas Fault," Thomas W. Dibblee, Jr., U.S. Geological Survey
- 4:10 p.m.—"Geothermal Resources of the Pacific Coast, Present and Future," David N. Anderson, State of California—Division of Oil and Gas
- 4:35 p.m.—"Legislation and Tomorrow's Oil from Today's Provinces," Arthur O. Spaulding, Western Oil and Gas Association

#### FRIDAY AFTERNOON — APRIL 23 — SEG

- 2:30 p.m.—"Interpretive Uses of Seismic Modeling With Emphasis on Stratigraphy and Seismic Resolution," N. S. Neidell, \* J. P. Lindsey, F. J. Hilterman, Geoquest International Ltd.
- 2:55 p.m.—"Satellite Exploration by Geophysicists," Richard M. Zoreb, Petty-Ray Geophysical Div., Geosource, Inc.
- 3:20 p.m.—"Design of a High Frequency Resolution Airgun Array," T. A. Marty, Amoco International Oil Co.
- 3:45 p.m.–"Structural Elements of the Offshore Gulf of Alaska Tertiary Province," Terry Bruns, U.S. Geological Survey
- 4:10 p.m.—"Evidence for Low Free Gas Saturations in Water-bearing Bright Spot Sands," H. J. Ritch and J. T. Smith, Shell Oil Co.

#### FRIDAY AFTERNOON — APRIL 23 — SEPM

- 2:20 p.m.—"Pliocene Biostratigraphy and Depositional Environment of the Jacalitos Canyon Area, California," Robert J. Stanton, Jr.,\* Texas A&M University, and J. R. Dodd, Indiana University
- 2:40 p.m.-"Neogene Molluscan Stages of Oregon and Washington," Warren O. Addicott, U.S. Geological Survey
- 3:00 p.m.—"Neogene Diatom Correlations in California— Their Problems and Solutions," Walter W. Wornardt, Union Oil Co. Research
- 3:20 p.m.–"Middle Miocene–Lower Pliocene Marine Diatom and Silicoflagellate Correlations in the California Area," John A. Barron, U.S. Geological Survey
- 3:40 p.m.—"Tertiary Stratigraphy and Depositional Environments near Indians Ranch, Monterey County, California," Stephan Graham, Exxon Production Research Co.
- 4:00 p.m.—"Paleontologic Studies of the Middle Tertiary Skooner Gulch and Galloway Formations at Point Arena, California," F. Jay Phillips\* and Bruce Welton, University of California, Berkeley; and Joann Welton, Standard Oil Co. of California
- 4:20 p.m.—"Coccolithus pelagicus; a Clarification," David K. Totten, Jr., Anderson, Warren & Associates
  4:40 p.m.—"Coiling Ratios in Planktonic Foraminifera:
- 4:40 p.m.—"Coiling Ratios in Planktonic Foraminifera: Adaptive Significance and Paleoenvironmental Interpretation," J. H. Lipps, University of California, Davis

## PACIFIC SECTION AAPG EXECUTIVE COMMITTEE MEETING — FEB. 27, 1976

The Pacific Section SEG now has in excess of 200 members excluding the Bay Area Geophysical Society (BACS) which is not directly affiliated with the former.

The SEPM will have the *Neogene* Symposium for sale at the 1976 Pacific Section Convention in San Francisco. The 1976 field trip will be held in the White-Inyo Mountains on October 16 and 17 with John Moore of UCLA the leader.

The nominating committee submitted the following list of candidates for the 1976-77 offices for the Pacific Section AAPG.

President Elect

Vern Jones Dalton Pollard Vice President

Don Hallinger John Truex Secretary

Don Reynolds Bruce Robinson

It was suggested that the certificates of appreciation to be given to past Pacific Section AAPG officers be redesigned because they are poorly done.

The proposed changes of the Pacific Section AAPG Constitution and By-Laws will be published in the January-February PACIFIC PETROLEUM GEOLOGIST and will be included to vote on with the officers ballots.

The paid-up membership of the Pacific Section AAPG is now slightly in excess of 1,100.

Judy Hughes' duties as membership secretary will be assumed at the close of the San Francisco Convention by Betty Bean, Union Oil Company, 2700 "F" Street, Bakersfield, California 93301. Phone is 805-324-6571.

Motion passed to rescind last month's motion to pay \$150.00 liability insurance for Pacific Section AAPG members and guests. Motion passed to pay present insurance as due on existing policies plus a rider on liability for Sexton Canyon publication storage.

age. The IRS has approved an accounting change for the Pacific Section AAPG from a calendar to a fiscal year.

A motion was passed to rescind the action of the Executive Committee of August 27, 1975 (Item 9) to raise the annual Pacific Section dues from \$5.00 to \$7.50 per member.

Motion passed to keep the Martin Van Couvering awards within the local convention areas (150+ miles). There is enough money in the fund for eight students this year.

The cost of the Kleinpell project will total about \$11,000 in all. All companies have been invoiced for their pledges supporting the Southern California Borderlands symposium and about \$1,600 has been received.

A new membership directory will be completed in time for sale at the 1977 Pacific Section AAPG Convention in Bakersfield.

A second mailing for the 1976 San Francisco Convention consisting of the tentative program, a pre-registration form and a membership application will be sent in one week.

The 1977 Bakersfield Convention is progressing. Workers are being recruited.

The 1976 Pacific Section AAPG Spring Field Trip will be hosted by the Coast Geological Society on June 4, at the Ferndale Ranch in the Upper Ojai area.

## PACIFIC SECTION AAPG CONVENTION

April 21 to 23 Holiday Gateway Inn San Francisco, California

#### **CONVENTION ACTIVITIES**

ICE BREAKER, Wed., 6:30 to 9:00 p.m., Emerald Ballroom.

JOINT LUNCHEON, Thurs., 12:30 p.m., Gold Rush Room. Speaker: Congressman W. M. Ketchum.

NO HOST COCKTAIL PARTY, Thurs., 5:00-7:00 p.m., Gold Rush Room.

SEPM DINNER, Thurs., 7:30 p.m., Gold Rush Room. Speaker: Clarence R. Allen.

ALUMNI LUNCHEONS, Fri., 12:15 p.m., Gold Rush Room. Circle the school luncheon table where you wish to be seated: UC Berkeley; Stanford; USC; UCLA; San Diego U.; U. of Ore.; Ore. St. U.; Cal Tech.; Long Beach St.; NE; SE; SW; MW; W United States Univ.

WINE TASTING, Fri., 5:30-7:00 p.m., Gold Rush Room.

FIELD TRIP, Sat., 8:30 a.m. to 4:00 p.m., reservoir rocks exposed on the North Flank of Mt. Diablo. Includes transportation, lunch, and guide book.



#### NO REPORT.



NO REPORT.



NO REPORT.



NO REPORT.



NO REPORT.

**RECOMMENDED READING** CALIFORNIA DIVISION OF

MINES AND GEOLOGY

Bouguer Gravity Map of California: Ukiah Sheet

California Geology, vol. 28, no. 12, December 1975

Reclamation of sand and gravel pits, by Ken Carreiro

- Ground rupture associated with faulting-Orovoille earthquake, August 1975, by Earl W. Hart
- Panamint-City of silver, by Dr. O. N. Cole
- Map Sheet 21: Geology of the Bodie quadrangle, Mono County, California, by Charles W. Chesterman and C. H. Grap. Ir. \$450
- Special Report 124: Oroville, California, earthquake, 1 August 1975. Edited by Roger W. Sherburne and Carl J. Hauge ......\$3.50

CALIFORNIA GEOLOGY, vol. 29, no 1, January 1976

- Pygmy forest: an ecologic staircase, by William W. Fox
- "Black-Box geology" uses an misuses of geophysics in engineering geology by Gordon W. Chase and Rodger H. Chapman
- Blowout of a geothermal well: The Geysers Geothermal Field, Sonoma County, California, by C. Forrest Bacon

FIELD NOTES (From the Arizona Bureau of Mines, vol. 5, no. 3, Sept. 1975)

Geology and land-use planning, by John S. Vuich

FIELD NOTES (From the Arizona Bureau of Mines, vol. 5, no. 4, December 1975)

- Coal: Arizona's most important energy resource?, by H. Wesley Peirce Collapsing soil-a geologic hazard, by
- Bruce J. Murphy THE ORE BIN, vol. 37, no. 12, December 1975
- The Wallowa "ice cap" of northeastern Oregon: an exercise in the interpretation of glacial landforms, by John E. Allen

WASHINGTON DEPT. OF NAT-URAL RESOURCES, Division of Geology and Earth Resources (Olympia, 95804)

- Geologic Map GM-13: Geologic map of the Destruction Island and Toholah quadrangles, Washington, by Weldon W. Rau ......\$3.50
- Information Circular 54: A geologic road log over Chinook, White Pass and Ellensburg to Yakima highways, by Newell P. Campbell \$1.50
- Information Circular 56: Compilation of earthquake hypocenters in western Washington—1974, by Robert S. Crosson and Richard C. Millard 50¢

U.S. GEOLOGICAL SURVEY

- Professional Paper 726-E: Gravity and aeromagnetic study of part of Yakima River basin, Wash., by S. L. Robbins, R. J. Burt, and
- Professional Paper 823: A, B, C, D: Paleozoic corals of Alaska .....\$3.40
- Professional Paper 941-A: Studies for seismic zonation of the San Francisco Bay region, edited by R. D. Borcherdt \$2.80
- Bulletin 1383-B: Upper Pleistocene Pyroclastic-flow deposits and lahars south of Mount St. Helens volcano, Washington, by J. H. Hyde ......45¢
- Bulletin 1388: Influence of rainfall and ancient landslide deposits on recent landslides (1950-71) in urban areas of Contra Costa County,

- Calif., by T. H. Nilsen and B. L.
- Turner .....\$1.90 Bulletin 1401: Rapid analysis of silicate, carbonate and phosphate rocks—revised edition, by Leonard Shapiro .....\$1.10
- Bulletin 1408: New and refined methods of trace analysis useful in geochemical exploration, by F. N. Ward, Editor ......\$1.40

GEOLOGY, vol. 4, no. 1, January 1976

- Late Precambrian evolution of North America: Plate tectonics implication, by John H. Stewart
- Radiometric dating of time of thrusting in the disturbed belt of Montana, by Janet Hoffman, John Hower, and James L. Arnson
- Tectonic implications of a late Paleozoic volcanic arc in the Talkeetna Mountains, south-central Alaska, by Béla Csejtey, Jr.
- GEOLOGY, vol. 4, no. 2, February 1976
- Magnesium hydroxychloride: A possible pH puffer in marine evaporite brines?, by W. M. Bodine, Jr.
- Late Proterozoic microbiota of the Miette Group, southern British Columbia, by Barbara J. Javor and Eric W. Mountjoy
- GEOLOGICAL SOCIETY OF AM-ERICA BULLETIN, Vol. 87, no. 1, January 1976
- Geochronology of the Arabian Shield, western Saudi Arabia: K-Ar results, by Robert J. Fleck, R. G. Coleman, H. R. Cornwall, W. R. Greenwood, D. G. Hadley, D. L. Schmidt, W. C. Prinz, and J. C. Ratté
- Variations in surface roughness within Death Valley, California: Geologic evaluation of 25-cm-wave length radar images, by Gerald G. Schaber, Graydon L. Berlin and Walter E. Brown, Jr.
- Geology and plate tectonics interpretation of the sediments of the Mesozoic radio larite-ophiolite complex in the Neyriz region, southern Iran, by A. Hallam
- Beach cusps formed by intersecting waves, by Robert A. Dalrymple and Glen A. Lanan

- Pleistocene glaciation in the southern part of the North Cascade Range, Washington, by Stephen C. Porter
- Stratigraphy and palynology of late Quaternary sediments in the Puget Lowland, Washington: Discussion and reply, by R. J. Fulton, J. E. Armstrong and J. G. Fyles and Don J. Easterbrook
- Paleosalinites within a Pliocene bay, Kettleman Hills, California: A study of the resolving power of isotopic and faunal techniques: discussion and reply, by Thomas C. Williams, J. Robert Dodd and Robert J. Stanton, Jr.
- AMERICAN JOURNAL OF SCI-ENCE, vol. 276, no. 1, January 1976
- Paleontology and phylogeny: patterns of evolution at the species level in Early Tertiary mammals, by Philip D. Ginerich
- Certainty and uncertainty in geology, by David B. Kitts
- Pragmatism versus materialism in stratigraphy, by J. E. O'Rourke Fossil data and the Precambrian-
- Fossil data and the Precambrian– Cambrian evolutionary transition, by Steven M. Stanley
- On the survival of paleoforms, by C. R. Twidale
- THE JOURNAL OF GEOLOGY, vol. 83, no. 6, November 1975
- Ultramafic and mafic inclusions, Kanaga Island, Alaska, and the occurrence of alkaline rocks in island arcs, by Stephen E. DeLong, F. N. Hodges, and R. J. Arculus
- SCIENTIFIC AMERICAN, vol. 233, no. 6, December 1975
- The strip-mining of western coal, by Genevieve Atwood.
- SCIENTIFIC AMERICAN, vol. 234, no. 1, January 1976
- The necessity of fission power, by H. A. Bethe
- The volcanoes of Mars, by Michael H. Carr
- CALIFORNIA DIVISION OF OIL AND GAS TECHNICAL PAPERS Report No. TP01, July 1975
- Belmont Offshore oil field, by L. J. Olson.
- Subsurface structure of the northwestern Los Angeles Basin, by H. R. Lang and R. S. Dreessen.
- Environmental enchantment program of the Division of Oil and Gas in the San Joaquin Valley oil fields, by F. L. Hill.
- CALIFORNIA DIVISION OF
- MINES AND GEOLOGY
- Special Report 116: Geophysical study of the Clear Lake Region, California, 1975,
  - by Rodger H. Chapman ......\$1.00 (continued on page 8)

#### PAGE 8

#### RECOMMENDED READING ...

- GEOLOGY, vol. 3, no. 12, December 1975
- Mount Baker eruptions, by Don J. Easterbrook.
- K-Ar ages from the Near Islands, western Aleutian Islands, Alaska: Indication of a mid-Oligocene thermal event, by Stephen E. De-Long and Fred W. McDowell.
- Effect of geologic structure and metamorphic fluids on seismic behavior of the San Andreas fault system in central and northern California, by William P. Irwin and Ivan Barnes.
- Ancient southern margin of North America, by Philip B. King,
- U.S. GEOLOGICAL SURVEY
- **OPEN FILED REPORTS** (Deposited in Los Angeles (LA), San Franciseco (SF) and Menlo Park (MP) (For inspection only)
- 75-281: Reconnaissance landslide map of parts of Marin and Sonoma Counties, Calif., by C. M. Went-worth and V. A. Frizzell.
- 75-385: A study of earthquake losses in the Puget Sound, Wash., area, 298 pages.
- 75-384: Geological literature on the North Slope of Alaska, 1969-1974, by R. D. Carter, J. M. Denman and J. G. Pierpoint.
- 75-394: Geologic maps of the Paceco Pass, Hollister, Quiene Sabe, Ortigalita Peak, San Benito, Panoche Valley and "Tumey Hills" quadrangles (San Benito, Santa Clara, Merced and Fresno Counties) Calif., by T. W. Dibblee.
- 75-427: Helium surveys over known geothermal resource areas in the Imperial Valley, Calif., by A. A.

NEWSLETTER

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

- 75-446: Self-potential map, Steamboat Hills, Nev., by D. B. Hoover, Michael Batzle, and Rubdy Rodriguez.
- 75-447: Audio-magnetotelluric data and station location map, Steamboat Hills, Nev., by C. L. Long and R. H. Brigham.
- 75-499: Preliminary map showing distribution and isotopic ages of Mesozoic and Cenozoic intrusive rocks in Nevada, by J. E. Carlson, D. W. Laird, J. A. Peterson, J. H. Schilling, M. L. Silberman and J. H. Stewart. GEOLOGY, vol. 3, no. 10, October 1975
- Early Paleozoic continental margin sedimentation, trilobite biofacies, and the thermocline, western United States, by Harry E. Cook and Michael E. Taylor.
- GEOLOGY, vol. 3, no. 11, November 1975
- Mapping the physical environment in economic terms, by Christopher C. Mathewson and Donald P. Piper.
- Sinuosity of strike-slip fault traces, by R. J. Bridwell
- Primitive fossil flatworm from Alaska: New evidence bearing on ancestry of the Metazoa, by Carol Wagner Allison.
- Diastem factor in Mississippian rocks of the northern Rocky Mountains, by William J. Sando.
- Endemism and similarity; indices: Clues to the zoogeography of North American Mississippian corals, by William J. Sando, E. W. Bamer and Augustus K. Armstrong.
- AMERICAN JOURNAL OF SCI-ENCE, vol. 275, no. 8, October 1975 Linear vent systems and estimates rates of magma production and

eruption for the Yakima Basalt on the Columbia Plateau, by D. A. Swanson, T. L. Wright and R. T. Helz.

What is type Paleocene?-discussion, by Philip D. Gingerich. THE JOURNAL OF GEOLOGY, vol.

- 83, no. 2, March 1975
- Oregon continental shelf sedimentation: Interrelationships of facies distribution and sedimentary processes, by L. D. Kulm, Robert C. Roush, John C. Harlett, Roger H. Neudeck, David M. Chambers and Erwin J. Runge.
- Offshore bars along the Alaskan Arctic Coast, by A. D. Short.
- Origin of marble by replacement of gypsum in carbonate breccia nappers, Carson Sink region, Nevada, by Robert C. Speed and Robert N. Clayton.
- Phanerozoic diversity patterns: Tests for randomness, by Karl W. Fleesa and Jeffrey S. Levinton.
- THE JOURNAL OF GEOLOGY, vol. 83, no. 3, May 1975
- Problems in determining mantle geotherms from pyroxene compositions of ultramafic rocks, by H. G. Wilshire and E. D. Jackson.
- Properties of one-dimensional diagenetic models, by Donald L. Graf and David E. Anderson
- Surface stone movement and scree formation, by M. J. Kirkby and Ian Statham.
- THE JOURNAL OF GEOLOGY, vol. 83, no. 5, September 1975
- Relationship between grain size of source rock and derived sediment, Biorka Island tonalite, southeastern Alaska, by Charles M. Hoskin and Daniel A. Sundeen.
- LUCY E. BIRDSALL

## PACIFIC PETROLEUM GEOLOGIST NEWSLETTER

of the Pacific Section American Association of Petroleum Geologists

VOLUME 30

MAY/JUNE/JULY, 1976

NUMBER 5/6/7

## Memorial Held for USGS Scientist

Memorial services were held June 18 at the U.S. Geological Survey, Western Region Headquarters, Menlo Park, for James C. Taylor, who died suddenly on June 8. He was 51.

At the time of his death, Taylor was in charge of evaluating the petroleum potential for the Pacific Coast, both onshore and offshore. Author of numerous technical publications, his latest, entitled, "Geologic appraisal of the petroleum potential offshore southern California: The borderland compared to onshore coastal basins," was released in April.

His professional career began as junior geologist for Buchans Mining Co. in Newfoundland, but in 1953 he began a 20-year association with Shell Oil Co. in Texas, the western states, and Alaska. He applied research to production and exploration problems, mainly in the fields of petrography and sedimentary petrology and in the properties of rocks as they relate to oil field reservoir characteristics. He also conducted geologic field and laboratory studies on tar sands, geothermal prospects, welded tuffs, subsidence, and the generation and migration of petroleum. He was involved in both primary development and secondary recovery operations, and in evaluations of known fields, and in bidding recommendations for offshore leases.

In 1973 he accepted an appointment with the U.S. Geological Survey where he concentrated on the acute energy problems facing the nation.

#### **President's Corner**

As outgoing (gone!) president of the Pacific Section, I wish to thank those who contributed most to keeping the Section informed and in busines during the past year, increased its membership dramatically, helped to further stabilize its finances and consolidate its operations, and staged a highly successful annual meeting. In the interest of space, only the positions are noted rather than the many individual accomplishments:

murviduar accompusiments.
Bob Hindle Vice President and
Membership Chairman
Bud Reid President-elect and
Public Affairs Chairman
Lou Heintz Secretary
Lou Heintz Secretary (first part of term)
Ernie Rennie
Ernie Rennie
Howard Stark Treasurer
Howard Stark
Neuveletter
Bill Hunter Past President
Jim Gibson LABGS President and
Directory Committee
Bob Davis LABGS President and Directory Committee Bob Davis
Dob Davis Ended Trestaent
Ed Coughlin SJGS Representative
Ed Gougnin 5)G5 Representative
Ed Karp
Ed Karp
annual meeting host society
Herb Wheeler SPA President
Dick Atchison AGS President
Hank Neel Section Representative, AAPG Advisory Council
AAPG Advisory Council
Bob Blaisdell 1976 Convention
Bob Blaisdell 1976 Convention Chairman (should be 30 more here!) Don Hallinger Finance Chairman
Don Hallinger Finance Chairman
<b>Doug Traxler</b> Planning and Organization Chairman
Organization Chairman
<b>Carl Evans</b> Publications Chairman
<b>Bob Paschall</b> Legislative Chairman
I vnn Tennyson Directory Chairman
Judy Hughes Membership Secretary Gene Fritsche Pacific Section
Gene Fritsche Pacific Section
SEPM President
Dennis Mett Pacific Section
SEG President
Bob Mertz Bay Area Geophysical
Society President
Ladies and gentlemen, thank you!
Laules and gentiemen, mank you:

Ladies and gentlemen, thank you WES BRUER

## CALL FOR PAPERS PACIFIC SECTION SEPM

Do you have a paper that you would like to present at our next year's SEPM convention? Now is not too soon to start thinking about it. The theme for the 1977 Joint Annual Meeting of the Pacific Sections of SEPM, AAPG, and SEG will be "Up with Basics!", stressing all the basic tools of petroleum exploration. The SEPM part of the meeting, to be held April 20-22, 1977, in Bakersfield, California, will consist of an all-day Research Symposium and a half-day session open to submitted papers on any sedimentary or paleontological topic that is in keeping with the convention theme.

The SEPM Research Symposium will be on "Pacific Coast Paleozoic Paleogeography" and will occupy the Friday morning and afternoin sessions, to be coordinated by Symposium Co-Chairman, John H. Stewart of the U.S. Geological Survey and Calvin H. Stevens of San Jose State University. Prospective speakers on topics not suitable for the symposium are invited to submit abstracts for consideration for presentation at the Thursday afternoon session.

This is our first call for papers for the Thursday session of our 1977 meeting. You are asked to submit abstracts of approximately 300 words to me no later than November 15, 1976. The Thursday afternoon program will be compiled from submitted abstracts.

The program time available on Thursday afternoon will not accommodate all prospective speakers, so authors of abstracts are urged to observe the deadline for submittal and to consider carefully the quality and suitability of their abstracts. Competition for the few time spots will probably be stiff. Authors will be notified in early January, 1977, as to the acceptance of their abstracts.

ANN TIPTON DONNELLY SEPM Technical Program Chairman 6209 Hartman Avenue Bakersfield, California 93309 Phone: (805) 323-4896 PAGE 2



Pacific Section Convention, San Francisco, April 21-23, Holiday Inn.

Upstairs, well-dressed men and women strolling North through the crowded lobby against a stream of same strolling South - old men with white hair and well-shaven jowls, knowledgeable faces with exploratory eyes, money in the pocket, expenses no sweat - youthful and middle aged executive types, smartly clad, goodlooking, ambitious, sharp eyes - handsome women in I. Magnin apparel, grandchildren in school hoping for handouts, charming conversation with men, serious tete-a-tete with women, looking each other over, rushing off to keep a date - young men in casual clothes, shirts open, long groomed hair, hanging on to their young wives in slacks and short hair, fresh serious faces wide-eyed by the affluence of the group, looking ahead, eager, confident, don't worry we'll make it.

Downstairs, more groups of neatsuited, intelligent men, talking in doubles over Schlumberger coffee, singles strolling about looking wisely at the complex gear, reading brochures, greeting old friends, occasional loud laughs identify risque stories, togetherness, courtesy, mutual respect and interests everywhere.

The Big Four - A quadruplet of gleaming helmsmen stand out among the chic bourgeois: Johnny Kilkenny, President of AAPG, trim in summer gray, genial, spirited, alert - a born leader; Wesley Bruer, President of Pacific Section AAPG, handsome in clerical black, vigorous, decisive, resolute - a man for all seasons; Dave Pfeiffer, President of NCGS, debonnaire in charcoal tailoring, broad-shouldered, direct, buoyant – Gibraltar of industry; Bob Blaisdell, General Chairman of the convention committee, polished in gay jacket and slacks, blythe, energetic, indefatigable, wise in the organization of conventions.

For the many others who put on the show, we applaud loud and long. For names, please consult your convention program.

Arcanum – Exploration has become a scientists milieu of complex machines, electrified, programmed, computerized, push-buttoned, instant results, guaranteed discoveries??? Time Seiscrop of Seismic Data flashing numbered displays of Persian rug patterns all morning, one after the other, all afternoon, pattern after pattern, all night? What does it mean? No one knows. No attendant to explain. Came forth a knowledgeable Stanford Ph.D. We grabbed him. What is it? He stared expressionless. What does it mean? He shook his head. "God knows!"

**Papers** – Excellent presentations, well prepared. Geologists are improving in public-utterance capabilities. Years ago the average quality of presentation seems sub-minor in retrospect. Slides were unrecognizable except with binoculars. Weak, off-the-cuff hesitant language made for incredibly dull listening for the most part (some will disagree). Over the years progress has inserted her sharp, competative needle into the minds of later generations who are responsive to demands for ever better preparation and delivery to critical listeners and lookers. So it seems.

**People** – Friday, 11:00 a.m., registration count 1,138 souls made up of 535 Pacific Section members, 151 nonmembers, 86 complimentary guests including 65 speakers, 116 students, 250 wives. (AAPG-SEPM-SEG). Fine gathering, great crowd, outstanding throng, and three ripping cheers for Bob Blaisdell and his hard-working colleagues for putting together a smashing sucess.

**Big Question** – Is a convention worth the price of the gratuitous, monumental efforts expended by a dedicated staff? In preparation and delivery of papers? In tires, shoeleather and fa-tigue of the plebes who look and listen? In time and expense of those who eat and drink and frolic and pay and pay? The many millions who convene year after year, in places far and wide in greedy, troubled cities, must think the assets are equal to the liabilities and capital. On the day of registration, all would perhaps answer "Yes." On the way home, broke and tired, some may wonder. Or are we just getting old?

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"... and there warn't anybody at the church, except maybe a hog or two, for there warn't any lock on the door, and hogs like a puncheon floor in summer-time because it's cool. If you notice, most folks don't go to church only when they got to; but a hog is different."

> Mark Twain: Adventures of HUCKLEBERRY FINN

#### OTT KOTICK

#### FIRST CALL FOR PAPERS OFFSHORE TECHNOLOGY CONFERENCE

#### May 2-5, 1977 • Houston, Texas

Papers are being solicited for the 1977 Offshore Technology Conference to be held in Houston, Texas, May 2-5, 1977. Los Angeles Basin Geological Society members are encouraged to submit abstracts for consideration by the Program Committee. Papers covering all facts of offshore exploration, development and applied research are desired, e.g., assessment of hydrocarbon potential of the outer continental margins, marine geochemical prospecting techniques, identification of overpressured deepwater, sandstone reservoirs, slope stability, and recognition of nearsurface geologic hazards, remote sensing techniques applied to the oceans, and production characteristics of offshore reservoirs are particularly encouraged.

Papers submitted should not have had prior widespread publication or circulation. Twenty minutes will be allotted for each presentation with five-minute discussion intervals between papers. Authors submitting abstracts should note that a complete manuscript will be required for papers selected for presentation. The manuscripts will be printed in the Conference Proceedings and be distributed at the Conference. Maximum recommended length for a manuscript is 7000 words.

Abstracts, containing 200-300 words, should be submitted on standardized OTC Data Forms by September 15, 1976. Data forms can be obtained from AAPG/OTC Program Subcommittee Chairman Dana Braislin, Union Oil Company of California, Room 5M-29, P.O. Box 7600, Los Angeles, California 90051, (phone 213/486-7065), or from OTC Headquarters, 6200 North Central Expressway, Dallas, Texas 75206. Manuscripts selected for presentation must be submitted by February 18, 1977, to OTC Headquarters.

## Employment Opportunity

**Champlin Petroleum Company** is looking for a petroleum geologist/ petroleum engineer with several years of California oil field development experience to work with a special team on a detailed reservoir investigation of the Wilmington oil field. Interested persons should contact Herb Sweeney at: Champlin Potroleum Company

Champlin Petroleum Company P.O. Box 125 Wilmington, Calif. 90748 (213) 432-6923



#### **AN ACKNOWLEDGEMENT** *by* Martin Van Couvering

The Pacific Section of AAPG (as well as its parent, the national AAPG) has been so kind to me, in so many ways, over so many years, that I feel an obligation to acknowledge my debt, and to express my appreciation publicly. The Pacific Petroleum Geologist is the obvious medium for doing so.

From my point of view, the present is a particularly appropriate time. Not only is this our nation's bicentennial year, but the PACIFIC PETROLEUM GE-OLOGIST is in its 30 year. Finally, my birthday comes this month. I was born on a farm in Allendale Township, Ottawa County, Michigan, on June 15, 1888. The Lord willing, I will be 88 years old. (1888 plus 88 makes 1976.) That is a coincidence that will never occur again. At that

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membership inquiries should be directed to: MEMBERSHIP SECRETARY, PACIFIC SECTION AAPG, P.O. BOX 17486, FOY STATION, LOS ANGELES, CALIF. 90017. age, anything can happen any time, so I do not wish to defer this note of appreciation any longer. It could well have come much earlier, because my debt of gratitude began accumulating a long time ago.

My appreciation goes, not only to the organization but, individually, to the many members who have befriended me over more than 50 years. Sadly, many have passed away. To them I can never express my feelings.

Recently, it was my good fortune to attend the 51st Annual Meeting of the Pacific Section of AAPG and its affiliates in the charming city of San Francisco. In spite of the strike of many city employees, the attendance was a source of gratification to all who attended. Probably full details will appear elsewhere in this issue.

It was a particular source of pleasure to me to encounter so many of my friends, old and new. I tried to compile a list, but I am sure it is not complete. It includes names of 62 people I saw at the convention. There was a surprising number of oldsters.

While in San Francisco, I visited the Palace of Fine Arts, a restored relic of the Pan-Pacific International Exposition of 1915. It was of nostalgic interest to me because I saw it in all its glory in 1915, when it was proclaimed one of the wonders of the world.

At that time, I was a student at Oregon Agricultural College (now Oregon State University), which had a Cadet Corps, of which I was a member. The State of Oregon had a building in the fair, which was modeled after the Parthenon in Greece but was made of Oregon logs. (Oregon was then, and still is, one of the leading lumber-producing states.) The people in charge decided it would be nice to provide the building with guides in military uniforms. The choice of these guides was based upon an examination of the knowledge we had of Oregon's resources. Two cadets went down every other week and relieved an earlier pair. I was one of the lucky ones. My most distinguished guest was John Philip Sousa, the famous March King, whose band played at the fair throughout its life. Sousa was accompanied, at the Oregon Building, by his wife and an attractive daughter. I found it no hardship to show them about the building.

The Palace of Fine Arts was the only fair building that was spared from destruction at the end of the fair. Over the years, it deteriorated rapidly, to the great distress of those who had loved it, till funds finally became available for its restoration.

For me, there will never be another

exposition to equal the Pan-Pacific, despite the fact that my models of Kettleman North Dome were on exhibition in the San Francisco world's fair of 1938-39 on Treasure Island.

If it meets with the approval of the readers of PACIFIC PETROLEUM GEOL-OGIST, I may offer contributions, from time to time, based on my long experience in the profession and the Association.

#### <u>к</u> к

Old timers or others, who might like having a gift copy of my "Early Days Memoirs, 1889-1928," stop at my home in P.G. (49 Calle de los Amigos) or write Box 479, Pacific Grove, CA 93950. I have a few copies left.

**OLAF P. JENKINS** 

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#### GENERAL CALL FOR PAPERS 1977 PACIFIC SECTION AAPG FIELD TRIP GUIDEBOOK

Phil Ryall has been appointed chairman of the 1977 Pacific Section AAPG Field Trip. The Fild Trip will concentrate on the Stevens Sand on the West side of the Southern San Joaquin Valley. Those interested in contributing to the Guidebook please contact:

> Phil Ryall 602 H Street Bakersfield, California 93304 (805) 323-7759

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#### GENERAL CALL FOR PAPERS 1977 AAPG, SEG AND SEPM CONVENTION

Frank Weagant and Rodney Nahama have been appointed Program Chairmen for the 1977 Pacific Section Convention in Bakersfield.

The theme for 1977 is "Up with Basics" and we would like a general call for papers to be published in the PACIFIC PETROLEUM GEOLOGIST. The following are some suggested titles for specific papers:

Origin and Migration

Alaska (offshore and onshore)

Washington (offshore and onshore)

Oregon (offshore and onshore)

California (offshore and onshore)

Nevada

Shoreline Processes

Geochemistry

Reservoir

**Economics of Oil Business** 

The title and general contents of the paper should be mailed to Nahama & Weagant no later than August 1, 1976.

> Nahama & Weagant, Inc. 602 H Street Bakersfield, CA 93304

## Pacific Section

SPRING PICNIC

The weatherman delivered a fine June 4th for the Pacific Section Spring Barbeque, Golf Tournament and Field Trip, hosted this year by the Coast Geological Society.

One hundred seventy-seven bodies piled into 51 cars to view the Pliocene geology of the eastern areas of the Santa Paula Oil Fields. Highlights of the geology and historic oilfield sites were described by Ed Hall, Chuck Barker, Manley Natland, and John Crowell.

Meanwhile, back at the ranch – Elkins Ranch Golf Course that is – the more serious minded folks participated in the annual golf tournament. Eighty-eight people hooked and sliced their way to glory. Those receiving trophies and prizes were:

1st Low Gross –
Bob Lindbloom78
2nd Low Gross –
Tom Woodward79
First Flight
1st Low Net –
Les Herndan72
2nd Low Net -
Don Paddick72
Second Flight
1st Low Net –
Bill Graham74
2nd Low Net –
Bill Kistler75

Later that same day . . . three hundred twenty souls gathered for the annual barbeque, held this year at Ferndale Ranch through the courtesy of Larry Barker. Two hundred pounds of Santa Maria beef, 20 pounds of hamburger, 38 pounds of beans, 40 pounds of salad, and 100 cases of beer and soft drinks helped quench the hardiest of appetites. Entertainment included volleyball, horseshoes, and the ever popular First Annual "Amazing one-green-multiple-tee Ferndale Ranch Golf Tournament." Winners of this challenging course were, Pat Fazio, "closest to the pin" (1'5"); Gary Bell, "in the circle." Nine winners of a bottle of alcoholic spirits discovered the secret to popularity can indeed be bottled.

The "Ventura Basin Tectonic Map," published by the Coast Geological Society, made its debut at the barbeque and was well received. Publications may be ordered through the Coast Geological Society, P.O. Box 3014, Ventura, California 93003. 1976 Spring Field Trip

Guidebook .....\$2.00 Ventura Basin Tectonic Map —

Ventura Sheet ......\$3.00

Thanks to all who made this an event to remember. The old stage coach ad reads "Ride the Stage to Ferndale Ranch, wine, dine, and dance to the wee hours of the morning." We did

The success of this picnic was also due to the generous support of corporate and service companies, and individuals. The Pacific Section AAPG membership wants to express our deep appreciation to the following supporters. Please remember them they are truly our friends.

Argo Petroleum Corporation **Arrington & Associates** B & W Incorporated B. J. Hughes, Inc. Peter Bawden Drilling, Inc. Bear & Kistler **Bendix Corporation** Borst & Giddens Oil Well Logging C & R Blueprint Core Laboratories. Inc. Dresser Atlas Dresser Magobar Homer Dulin Company Exploration Logging of U.S.A., Inc. Geological Exploration, Inc. **General Oceanographics** Getty Oil Company Gibson Directional Drilling, Inc. **Gulf Oil Corporation** H & H Oil Tool Co., Inc. Hyla Oil Company Johnson Velocity Surveys Julian Well Logging Service King & I Restaurant Midway Fishing Tool Company Munger Oil Information Service **Nicholeris Paleo Consultants** Norris Oil Company Oilwell Research. Inc. **Pauley Petroleum** Petroleum Solids Control, Inc. Petrolog Geological Well Logging Service Professional Drilling Fluid Service **Reese Sales Company** Sammy's Oilfield Service San Joaquin Fishing Tool Company Schlumberger Well Service Sealand Directional Drilling Strata-Log Texaco Inc. Union Oil Company United Directional Services Inc. Welex Don Padick Oil Well Logging DICK BERGER



As predicted, John Truex delivered a fine talk to the Coast Geological Society on May 18, when he discussed "Stratigraphic and Structural Similarity of the Santa Monica and Santa Ana Mountains." This talk, presented as a review of his paper, "Santa Monica and Santa Ana Mountains – Relation to Oligocene Santa Barbara Basin" published in the January 1976 AAPG Bulletin, Volume 60/1, was received with a great deal of local interest.

Predictions weren't so accurate, however, when we said John's talk would be the last talk of the season. We are going to sneak another one in on June 15 when, by the time you read this, Larry Beyer of the USGS will have presented a paper on "Borehole Gravity Logging: How to get More Information (and maybe more petroleum) from new and old wells." It was a good talk.

At the same meeting we have installed the new officers for the 1976-77 season. They are: President—Al Hanson, Getty Oil; Vice-President— Tom Hopps, Argo Petroleum; Secretary—Dick Berger, Argo Petroleum, and Treasurer—Harry Browne, Consultant.

A major undertaking for the limited membership of the CGS this year was hosting the Pacific Section Spring Golf Tournament, Field Trip and Barbeque. We think it was one of the best. Read about it in this issue.

The CGS has introduced two new publications for your libraries. A few copies of the 1976 Spring Field Trip Guidebook, "Pliocene Geology and the Santa Paula Oil Field Areas, Northeast part of Rancho San Buenaventura, Ventura Basin, California" are still available at \$2.00 each. The Ventura Basin Tectonic Map, Ventura Sheet is available for \$3.00. This map is the first in a proposed series of eight sheets extending from Point Conception to Castaic Junction.

The above publications may be ordered from:

Publications Chairman Coast Geological Society P.O. Box 3014 Ventura, California 93003 TOM HOPPS



NO REPORT.



✓ Drilling activity during the first six months of 1976 has not been particularly active in comparison with the past several years, however, the members have managed through a number and variety of meetings and discussions to keep active. The length of time allotted to "attitude adjustment" during these slow periods, has of course, been extended to prepare for the eventual year-end activity.

✓ January was our most important month from a standpoint of electing officers for the coming year, both in the Northern California Chapter of API and the Sacramento Petroleum Association. Elected officers of both the API and SPA are as follows:

#### **API**–Chairman:

Jim Cogbill, Go International

1st Vice Chairman:

Arsen Shanazarian, Hunnicutt and Camp Drilling Co.

2nd Vice Chairman:

S. T. Reynolds, Tri-Valley Oil & Gas Co.

Secretary-Treasurer:

B. R. "Swiss" Holmes, Hunnicutt and Camp Drilling Co.

Advisors:

Mike Bell, Schlumberger

Fred Harris, Western Mud Co.

Hack Kirkpatrick, Halliburton Services

Gene McCraw, Byron Jackson, Inc.

Joe Parmenter, Del Paso Exploration Co.

Ray Stein, Methan Engineering Co. Past Chairman:

J. Hubert Mee, Jr., Standard Oil Co. of California

**SPA**–President:

Fred Harris, Western Mud Co.

Vice President:

Roland Bain, Tri-Valley Oil & Gas Co.

Secretary-Treasurer:

Don Pinnell, retired

✓ During the months of January and February the Northern California Chapter of API presented two informative and timely dinner meetings before its members and guests. On January 21, Mr. John Sproul, P. G. & E. Vice President, Gas Supply, was the speaker at the Pheasant Club in West Sacramento. Mr. Sproul presented an overview of P. G. & E.'s anticipated estimates and future plans concerning their Northern California gas operations.

Mr. Grevelle Way, Chief of the Gas Division of the California Public Utilities Commission, was the distinguished speaker on February 25, at Posey's Cottage in downtown Sacramento. Mr. Grevelle Way directed his comments toward the regulatory aspects concerning California producers, both now and in the future, and complemented well the talk given the previous month by Mr. Sproul. The above mentioned presentations before members of the local petroleum industry and guests, as well as a previous presentation by Mr. Henry F. Lippit, II, Executive Secretary of the California Gas Producers' Association, on November 18, 1975, gave a rather comprehensive look at the energy field, principally natural gas, in California from various agencies. All three talks were well attended and enthusiastically received.

✓ The SPA during the first half of 1976 has also been active, with the weekly luncheon meetings being well attended by members and guests. There have been a wide variety of short talks and films presented over the months, and this in combination with the Annual Golf Tournament & Barbeque and API-SPA Softball Tournament & Barbeque, has provided everyone with a "super" first half.

On Friday, April 23, the SPA held its Annual Golf Tournament & Barbeque at Rancho Murieta Golf Course and Clubhouse, located 20 miles east of Sacramento. The golf course and clubhouse is one of the newest additions to the Sacramento area, and approximately 90 members and guests enjoyed the golf, "cocktail hour" and dinner. A "super skit" was given by Dalton Pollard, Consulting Geologist, and Fred Harris, Western Mud Co., depicting Dalton as the professional petroleum geologist who is explaining the art of "poking a wildcat" to a layman, played by Fred. The setting, of course, for this discussion is the local bar.

Congratulations to Ron Leineke, Venada, General Chairman for this event; Dalton, Fred, and too numerous to mention companies and individuals for the tremendous success of this year's event.

The "Dusters" did it again! Friday, May 21, was the day set aside for the Third Annual API-SPA Softball Tournament & Barbeque at Elk Grove Park. Although the crowd was small for the event, the enthusiasm was still there. The Rio Vista-Woodland "Dusters" came from behind to score the winning run in the bottom of the ninth to take the game from the Sacramento "Gasers." The tournament was followed by cold beer and barbequed steak dinner. There was, however, one injury this year. Herb Wheeler, Dow Chemical, broke his ankle in an all out attempt to steal home in the first inning.

► Dow Chemical U.S.A., Oil & Gas Division, has within the last several weeks, closed its Sacramento office and established Western regional headquarters in Walnut Creek. The oil and gas division staff includes: Clark Ditzler, Western Regional Manager; Terrence Plumb and Fred Hankinson, petroleum geologists; Jim Williams, geothermal geologist; Herb Wheeler, egnineer; and Bob Hussey, landman. The new address for the division is:

> Dow Chemical U.S.A. Oil & Gas Division 2855 Mitchel Drive, Suite 150 Walnut Creek, CA 94598 Ph: (415) 944-2285

Monty Doris has recently joined Capitol Oil Corp., Sacramento, as a geologist. Monty, USC graduate, will assume the geologic responsibilities in the Sacramento Valley formerly held by Pat Robinson. Pat terminated his employment with Capitol in April, and is now residing in the L.A. area. TERRY PLUMB

### AAPG PUBLIC AFFAIRS COMMITTEE

The AAPG Public Affairs Committee is seeking individuals within the profession who personally know the Representatives in their districts and would be willing to be a liaison and pass on to the elected Representatives material furnished by the National Headquarters. It is felt that this type of personal approach will carry more weight than something being sent from Headquarters directly. If personal contact cannot be established, then the Committee would like individuals within the districts who would be interested in forwarding this data to maintain the personal approach. Any members interested in taking part in this program should contact George B. Pichel, Union Oil Company of California, P.O. Box 7600, Los Angeles, California 90051, and he will see that they are made aware of the function of this group.



#### PAGE 6

## SACRAMENTO PETROLEUM ASSN.

On May 18, 1976, the California Public Utilities Commission issued an Order directing the producers of natural gas in Northern California to . . . "show cause as to why they should not be regulated as utilities." The seriousness of this Order, if carried out, prompts the Sacramento Petroleum Association to inform the public of the potential consequences.

The cost of natural gas to the Northern California consumer would increase sharply in the very near future because gas drilling in the Sacramento Valley would cease.

✓ Northern California would become even more dependent, sooner, on highly expensive imported gas. For years local gas has been the least expensive available to the consumer (now 75¢ versus \$1.85 Oregon border price for Canadian gas).

As new gas reserves cease to be found locally, the gas-producing counties (there are 10) would lose the millions of dollars in tax revenues derived annually from gas supplies in the ground. The loss of this revenue due to dwindling supplies would mean higher taxes to the local citizenry.

► Local landowners would lose income from gas royalties, income on which they pay taxes.

Decreasing gas production resulting from no further discoveries would mean less income to producers and, consequently, less income tax revenue to all levels of local, state and federal government.

Growing reliance on imported gas means that more and more Northern California consumer dollars would go to support foreign and out-of-state economies.

✓ There would be an immediate loss of jobs in the local petroleum industry as drilling ceases. The hundreds of people in the local industry support local communities by paying taxes and by buying goods and services.

✓ This vitally needed gas drilling industry would leave Northern California. With it would go the millions of dollars that annually go into the local economies. Most of these funds would be invested in Texas, where the wellhead prices is 50% to 75% higher, or in Louisiana, where much higher prices prevail and where the depletion allowance is 73% higher than in California (38% versus 22%, and in 1984, to be 15%). Louisiana raised its allowance to encourage more drilling.

There are large volumes of gas still to be found in Northern California. The discovery and development of these local gas supplies is the most realistic way to continue to bring low-cost gas to the consumer. A reasonably higher price to the producer to encourage more and deeper drilling — Not Regulation — is the most direct approach to increasing local supplies and to minimize the rising cost of gas to the consumer.

The CPUC's intended regulatory action can only result in sharply higher prices in the very near future and to the growing, heavy reliance on highly costly imported gas.

#### NATIONAL AAPG

President John E. Kilkenny of the American Association of Petroleum Geologists has announced that the following persons have been elected by membership ballot to serve on the 1976-77 executive committee which heads the 18,000 member organization.

Edd R. Turner, with Getty Oil in Houston, has been elected president for the 1977-78 term and will serve as president-elect during 1976-77.

Elected to the vice-presidency was Ralph L. Miller, senior geologist with the U.S. Geological Survey in Reston, Virginia.

Beginning a two-year term as the association's treasurer will be George S. Galbraith, independent geologist from Abilene, Texas.

Serving with the recently elected officers whose terms begin July 1 will be incumbent president-elect John D. Moody of New York City. Moody is a consultant, and will accede to the presidency. Robey H. Clark, vice president of Diamond Shamrock in Amarillo, will serve the second year of a two-year term as secretary. Also serving the remainder of his two-year term will be Editor John W. Shelton, geology professor at Oklahoma State University, Stillwater, Oklahoma.

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William Dow Hamm, a consulting geologist from Dallas, and retired executive vice president and director of Atlantic Richfield Company, has been named by the American Association of Petroleum Geologists as the 1976 recipient of that association's highest honor, the Sidney Powers Memorial Medal.

Honorary membership is given to persons to recognize service to the profession and to the association, and will go to three members this year. Leslie M. Clark of Calgary is a consultant and retired vice president of Pacific Petroleum. Sir Peter Kent of London is chairman of the United Kingdom National Environmental Research Council, having retired as exploration manager of British Petroleum several years ago. R. Dana Russell of Denver is a consultant, and a retired Marathon Oil consultant on geology and geophysics.

Lewis G. Weeks of Westport, Connecticut, chairman of the board of Weeks Natural Resources, will be the recipient of the AAPG Human Needs Medal, in recognition of his outstanding geological contribuions benefiting human needs. Weeks, a past president of AAPG, is an honorary member, and a former recipient of the Powers Medal.

The Distinguished Service Award will be given to James R. Jackson, Jr., of Houston, recognizing his extraordinary service to AAPG. Jackson is Environmental Affairs Manager for Exxon Company, USA.

Other award recipients will be Paul Hoffman of Ottawa, Ontario, with the Geological Survey of Canada, who will receive the J. C. Sproule Award, given for the outstanding petroleum geology paper by an author under 35 years of age; Daniel A. Busch of Tulsa, a consulting geologist, who will receive the President's Award, given for the best published paper of the year; and Leigh C. Price of Denver, with the U.S. Geological Survey, who will receive the Matson Award for the paper judged the best of those presented at the 1975 national convention.

#### PACIFIC SECTION AAPG BEST PAPER AWARD 1976

Donald L. Zieglar and John H. Spotts, co-authors of the paper "Reservoir and Source Bed History in the Great Valley, California," have been announced as winners of the A. I. Levorsen Memorial Award for the best paper presented at the 1976 Pacific Section AAPG Meeting in San Francisco. This award is given at the section and regional meetings of the AAPG for the best paper, with particular emphasis on creative thinking toward new ideas in exploration.

The paper, presented by Don Zieglar, showed reservoir data (porosity – permeability – depth) and geochemical concepts applicable in four major depocenters of the Great Valley of California, and focused on helping explorationists recognize the "best reservoirs" and relate them to source, migration and trap parameters to lead to successful finding of "Tomorrow's Oil from Today's Great Valley Province."

Don Zieglar and John Spotts are with Standard Oil of California, Western Operations' group in San Francisco.

BOB BLAISDELL

#### **PACIFIC SECTION AAPG** EXECUTIVE COMMITTEE MEETING June 1, 1976 • Carpinteria, California

1) President Reid reviewed many fine accomplishments of 1975-1976. Among the most important and far reaching were:

- a) Constitution and By-Law changes 1) Year now July 1 thru June 30
- b) Membership over 1100
- c) Defined "cooperating societies" 1) Alaska Geological Society Coast Geological Society Los Angeles Basin Geological Society
  - Northern California Geological Society
  - Sacramento Petroleum Assoc. San Joaquin Geological Society
- d) An outstanding Convention in San Francisco
- 2) President Reid outlined some of the goals for 1976-77.
- a) Solidify membership increase
- b) Determine if any additional cooperating societies – i.e. San Diego
- c) Publish new membership directory
- d) Solve publication handling and storage problems.
- e) Conduct Fall Field Trip -? Where? Who?
- f) 1977 Convention in Bakersfield moving along
- g) 1977 Spring Pienic
  - 1) Coast now doing and reaping the profit — makes them more eager! Coast probably best area.
- h) Improve public awareness
- i) Activate Committee on Planning & Organization – determine direction on Publication, Directory, Accounting, Cooperating Societies, Streamline operations, sharing costs with other Societies on West Coast, etc.

3) President Reid announced the following Committee assignments:

- a) Committee on Finance Don Hallinger, Chairman
- b) Committee on Membership Susan Cage, Chairman
- c) Committee on Legislation Robert Paschall, Chairman
- d) Committee on Publications Carl Evans, Chairman
- e) Committee on Directories Marilyn Tennyson, Chairman
- f) Committee on Conventions Stanford Eschner, Chairman
- g) Committee on Public Affairs Ted Off, Chairman

4) President Reid requested the Secretary to prepare a roster of officers, representatives, committee chairmen of cooperating societies plus the of-

## ficers of the SEPM, SEG, Pacific Sections.

#### New Business

1) Considerable discussion about informing the Public concerning the Energy business was had. It was suggested that the Pacific Section coordinate efforts with the National AAPG and other industry organizations. The Committees on Legislation and Public Affairs must be very active. An effort must be made to turn around the uninformed, anti oil business attitude of the various government bodies and the public in general.

a) Fred Harris and Ronald Bain discussed the "show cause order" of the California Public Utility Commission. This order could result in most gas producers being classified as Public Utilities.

2) Resolutions:

- a) Motion by John Truex, seconded by Vern Jones that: The Treasurer draw \$5000 from savings and advance to the Publication Fund. The \$5000 to be replaced when available. Passed.
- b) Motion by Vern Jones, seconded by Fred Harris that: The President, Treasurer and Secretary be authorized to furnish United California Bank, State Mutual Savings and Surety Savings with new signature cards. Passed.

3) Carl Evans reported that publication inventory exceeds \$38,000. He also reported that:

- a) Section still owes \$1500 on Kleinpell publication.
- b) Ĥave considerable investment in Borderland Symposium (Approx. \$5500).
- c) Have 800 1975 directories will give as bonus with purchase of other publication.
- d) Will look into having "warehouse" sale.
- e) Need additional copies of "Global Tectonics" from San Joaquin Society.
- f) Should consider getting local Societies to help with sales.
- 4) Ken Graves, CPA, presented Financial Statement.
- a) Secretary to include with Minutes.
- b) Finance Review Approx. \$4500 in checking account. IRS has approved change of accounting year to July 1 thru June 30.

5) General discussion was had concerning letter from Harold Bertholf, D.O.G. Mr. Bertholf has requested a meeting with industry to help chart the D.O.G.'s course of action.

- a) President Reid will follow-up on this.
- 6) Ted Off mentioned that Tom Dib-

ble's work may not be published by USGS. Can AAPG help?

7) Ed Karpe suggested that meeting times of Cooperating Societies be arranged so that an AAPG distinguished lecturer could make several meetings in one swing to West Coast. This will be studied.

8) President Reid suggested next meeting be in Los Angeles. This will be announced.



NO REPORT.



NO REPORT.

## SACRAMENTO PETROLEUM ASSN.

During May, 1976, five representatives of the Northern California natural gas exploration and production community met with four Commissioners of the California Public Utilities Commission (CPUC). On May 12, over two hours of discussions were held with Commissioners Leonard Ross and Robert Batinovich. On May 19, a two and one-half hour meeting was held with Commissioners Vernon Sturgeon and William Symons.

These meetings were requested by the gas group principally as a result of a talk given to the Northern California chapter of API in February by Grevelle Way, the CPUC gas division manager. Way's message was, essentially, this . . . "there is a gas supply problem in California. The only solution is to regulate the gas producer."

The intent of the gas representatives was to convey as much information and data as possible to the Commissioners relative to all facets of exploration, and its funding, development and production. The group presented itself as representative of all those who decide where to drill and how to implement and effect this drilling. The record of the past 10 years was reviewed, the potential for future discoveries discussed and the very strong and prominent role of the Independent stressed. The very noticeable correlation between an increase in gas price and the number of holes drilled and discoveries re-(continued on page 8)

## SACRAMENTO PETROLEUM ASSN. (from page 7)

alized was underscored. Additionally, a case history of a multi-well drilling program in the Sacramento Valley was detailed to illustrate what the producer contends with, cost-wise, and the attendant short-comings of the present price structure.

Perhaps the chief points of focus centered on the role of the Independent, the dire need of an adequate price incentive to promote more drilling in the face of rising costs, and the Independent's sensitivity to negative legislation and the portent of governmental control.

The Commissioners were told that regulating the gas producer would effectively shut down the exploration side of this business.

Of the four Commissioners, Leonard Ross was the most expressive. He, and the others, were grateful for the information gained during the discussions, however, Ross is dedicated to pursuing the Commission's "Order to Show Cause" (as to why producers of gas should not be regulated as utilities) to its conclusion – regardless of the effects it will most likely have on the gas industry in the state. Ross's reasoning and purpose is guided by the producer's ("outrageous") demands during the 1975 round of price renegotiations with PG&E. The request by some producers for \$2 dollars or more for their gas in Ross's mind translates into a \$200 million dollar "rip-off" of the Northern California consumer. Efforts to show that most of even this larger type of increase would be re-invested in Northern California in the search for gas fell on deaf ears. The case of two major oil companies recently purchasing non-energy companies (using oil and/or gas income dollars) serves as sufficient documentation for Ross and Batinovich.

These two Commissioners also failed to answer how they would rationalize to the consumer the near-future, inevitable, high cost of imported gas (e.g., LNG), or why the large volume of Northern California consumer dollars are going into the Canadian economy to the detriment of both the local consumer and the local gas industry. The point was made that Sacramento Valley gas is the cheapest in PG&E's system and that the consumer and the local economy could only stand to benefit from more local production and discoveries.

Ross's thinking extends to the "bank-

ing" of the gas in Northern California, i.e., preserving this gas for the future while using up Canadian, Alaskan, Indonesian, etc., gas. Much discussion evolved from this point. The incentive to drill in order to find more gas in the light of minimized production ultimately led to Ross's expressing his thoughts regarding a two-tier price system. Ross would favor a significant increase in the price of new gas while increasing the price for existing gas perhaps 15% to 20% a year. The relationship between this thinking and the CPUC regulating the producer is not clear.

It would appear that Batinovich agrees, at least tacitly, with Ross's thinking. On the other hand, Sturgeon and Symons appear to be friendly toward the petroleum industry. These latter form the conservative camp whereas the former two make up the liberal camp. President Holmes is the usual "swing" vote.

Interestingly, sometimes humorously, but most of all, sadly, there is a very noticeable level of animosity between the two camps. This, coupled with the "political expediency" nature of much of the Commissions' direction of voting, bears ill-tidings for the petroleum industry in this state.

ROLAND J. BAIN

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



## PACIFIC PETROLEUM GEOLOGIST NEWSLETTER

of the Pacific Section American Association of Petroleum Geologists

VOLUME 30

AUGUST/SEPTEMBER/OCTOBER, 1976

NUMBER 8/9/10

### NATIONAL AAPG

A groundbreaking ceremony for the Lewis G. Weeks Energy Resources Tower was held on the grounds of AAPG Headquarters in Tulsa on June 30. Honored guests were Dr. and Mrs. Weeks, who have contributed \$1 million for the construction, and James E. Hara, president of Skelly Oil Co., which has contributed the property necessary for the expansion.

The Tower will rise from the parking lot of the present headquarters building and be joined to it. It will contain approximately 15,000 square feet which, with the 10,000 square feet in the existing building, will assure adequate expansion space for the future. A large petroleum geology library will be featured in the tower and, along with the DeGolyer collection at the University of Oklahoma, will provide an unparalleled resource base for studies in petroleum geology.

Expressions of gratitude were offered by executive director Fred Dix on behalf of the headquarters' personnel, by Tulsa Mayor Robert J. LaFortune on behalf of the city, by president John E. Kilkenny on behalf of the Association, and by chairman W. Dow Hamm on behalf of the Foundation. Members of the Board of Trustees of the Foundation and both the 1975-76 and 1976-77 executive committees were present.

Congratulatory messages were read from Vincent McKelvey, USGS direc-tor; Senator Dewey F. Bartlett, U.S. Senator from Oklahoma (and an AAPG member); Bill Ayreton, president of the Canadian Society of Petroleum Geologists; past-president Frank Morgan, who, along with his vice-president, Lewis Weeks, laid the cornerstone for the present building 23 years ago; and past-president Grover E. Murray. In attendance at the ceremony were past-presidents Dan Busch, Ben Carsey, and Bill Curry; SEPM president Robert Shaver; and Dallas Geological Society president Stan Pittman.

Completion of the facility is projected for late 1977.

#### 1976 SEPM FALL FIELD TRIP **Depositional Environments of** Lower Paleozoic Rocks in the

White-Inyo Range, Inyo County, California

The purpose of this year's fall field trip is to examine the depositional environmental features of the Lower Paleozoic section in the White-Invo Range. Starting in Owens Valley at Big Pine, California, the field trip will concentrate on two ereas: (1) the area near Westgard Pass to examine Lower Cambrian strata, and (2) the Mazourka Canyon area to see the Ordovician-Silurian sequence and the overlying Mississippian rocks. The associated guidebook contains a set of papers dealing with aspects of paleontology, stratigraphy and depositional environments of the White-Inyo Paleozoic strata.

The field trip will be one day, October 16th, but will be followed the next day by informal short trips to selected areas in the White-Inyo Range. A dinner (plus keg) and talk will be presented the previous evening at Camp Inyo, west of Bib Pine.

The itinerary follows:

- October 15: 6:00 p.m. keg opened at Camp Inyo

- 7:00 p.m. Dinner 8:00 p.m. Business Meeting 8:30 p.m. Talk on the depositional environments and Cambrian grand cycles of deposition.
- October 16: 7:30 a.m. Assemble at the junction of Highways 395 and 168

8:00 a.m. – Leave junction of 395 and 168 to start trip.

5:00 p.m. – Field trip finishes at Independence, California.

To reach the departure area from the Los Angeles area, drive north on Highway 395. Big Pine lies between Independence and Bishop about 275 miles from Los Angeles. In October reaching the Big Pine area from western or northern areas of California may require using one of the southern (continued on page 5)

### **Employment Opportunity**

Los Angeles County Senior Oil Appraiser–Appraise oil mining rights and related facilities for property tax purposes. Permanent location in Los Angeles Basin, Los Angeles County Assessor's Department.

Minimum requirements: Graduation from an accredited college with a degree in petroleum engineering, mining engineering or geology, and one year's appraising or engineering experience in connection with oil wells and equipment. Experience in oil field engineering is desirable.

**Excellent fringe benefits:** 1. Health Plan – 2. Retirement Plan – 3. Sick Leave - 4. Paid Vacation.

Current salary range: \$18,526 -\$23,086.

#### Contact:

Mr. Robert Cook (213) 974-3341 Room 250, Hall of Administration 500 West Temple Street Los Angeles, California 90012

## **1977 PACIFIC SECTION** CONVENTION

The San Joaquin Geological Society will host the 52nd Joint Annual Meeting with the Pacific Sections of the AAPG, SEPM and SEG in Bakersfield, California, April 20-23, 1977.

The meeting will commence on Wednesday afternoon with participants being offered the opportunity to participate in either an APGS-sponsored geo-political and environmental seminar or a golf tournament. The Ice Breaker Cocktail Party will be held that evening.

Technical papers on Thursday and Friday will focus on the theme "Up With Basics," emphasizing modern tools and techniques for finding hydrocarbons plus several case histories of their successful use. A tentative outline of the program will be issued at a later date.

The joint session will wind up Sat-(continued on page 6)

#### NATIONAL AAPG

Independent petroleum geologists from Texas will head the slate of candidates for office in the American Association of Petroleum Geologists in an election to be held in the spring. Robert Gunn, Wichita Falls, will oppose M. O. Turner, San Antonio, for president-elect. The successful candidate will serve in that office for one year and assume the presidency of AAPG in July, 1978. These and other candidates were announced by John D. Moody, current president.

Gunn, a native of St. Paul, Minnesota, is a graduate of the University of Minnesota and studied petroleum engineering at Tulsa University. He served as an Air Force pilot during the second World War and began his career as a geologist with Texaco in Wichita Falls in 1949. In 1953, Gunn became a consulting geologist in Wichita Falls, and in 1958 established himself as an independent oil operator.

Turner was born in Magnolia, Texas and graduated from the University of Houston after serving in submarines during World War II. His first job in petroleum geology was with Stanolind (now AMOCO) in Corpus Christi and later with the same company in San Antonio and Houston. In 1954, Turner became a consulting geologist and independent oil operator in San Antonio.

Candidates for vice-president are Edwin P. Kerr and Wilbur E. McMurtry, both of Oklahoma City.

Kerr, a native of Marietta, Oklahoma and a graduate of the University of Oklahoma, began his career with Phillips in Bartlesville and subsequently worked for Bay Petroleum in New Mexico, for Northern Natural Gas in Midland and Omaha, and for Mobil in Oklahoma City. In 1973, he became an independent exploration geologist.

McMurtry was born in Drumright, Oklahoma and graduated from the University of Oklahoma. He has held geologic positions with Magnolia (now Mobil), Phillips, and Stanolind (now AMOCO). In 1954, he established his practice as a consulting geologist.

John J. Amoruso, a consultant and independent from Houston, will oppose Cliff J. Nolte, an independent geologist from Denver, for a two-year term as secretary of the AAPG.

Amoruso was born in Portsmouth, New Hampshire and holds degrees from Tufts and the University of Michigan. He worked for Pan American (now AMOCO) prior to becoming a consulting geologist and independent in 1969.

Nolte, a native of Smiley, Texas, received degrees from the University of Oklahoma. He was employed by Skelly and Sterling Drilling before establishing a consulting practice in 1957 and beginning operations as an independent geologist in 1962. Dr. John W. Shelton, Oklahoma

Dr. John W. Shelton, Oklahoma State University, Stillwater, will run unopposed for a second two-year term as Editor.

Shelton was born in China Spring, Texas ,and obtained degrees in geology from Baylor University and the University of Illinois. After receiving his Ph.D. from Illinois in 1953, he joined Shell as a geologist, leaving in 1963 to join the faculty at Oklahoma State. He also serves as a director of ERICO, Inc., a geological consulting firm headquartered in England.

Successful candidates will assume their offices on July 1, 1977. The AAPG is the world's largest geological organization, with more than 18,000 members in all 50 states and 80 countries.

## LABGS CONTINUING EDUCATION PROGRAM

November 1-3, 1976 2:30 to 6:30 p.m. Union Oil Auditorium

461 South Boylston

Los Angeles, California This year's Continuing Education Program will be "Tectonic and Stratigraphic Evolution of the California Continental Borderland from Cape Mendocino to Baja Mexico."

At present speakers will include:

David Howell, USGS

Gary Green, USGS

Jack Vedder, USGS

Eli Silver, UCSC

John Crowell, UCSB

and possibly

Bob Yates, Ohio University List of topics:

- 1. Strike Slip vs. Extension in the Continental Borderland
- 2. Proto San Andreas Fault
- 3. Mesozoic California and the Coast Range Thrust
- 4. Poway Fan
- 5. San Gregario-Hosgri Fault
- 6. Is the Great Valley Series Coeval with the Franciscan?

Those interested in attending please contact:

Bob Davis, Union Oil Co. 9465 South Santa Fe Springs Rd. Santa Fe Springs, CA 90670 (213) 945-1221

Bruce Barron

Oil Well Research Inc.

1539 West 16th St. Long Beach, CA 90813

- (912) ASE AOEA
- (213) 436-4254

### SEPM PUBLICATIONS

Coalinga Cretaceous Fild Trip Guídebook

Members -- \$4.00 Non-members - \$5.00 Baja California Field Trip Guidebook Members - \$4.00 Non-members - \$5.00 Miocene Symposium Volume Members - \$7.00 Non-members - \$8.00 **Turbidite Short Course Notes** Members - \$4.00 Non-members - \$5.00 The Paleogene of the Panoche Creek-Cantua Creek Area Members - \$7.00 Non-members - \$8.00 Future Energy Horizons of the Pacific Coast, Paleogene Symposium and Selected Technical Papers ......\$15.00 Santa Maria Field Trip Guidebook ......\$3.00 Neogene Symposium .....\$5.00 Increased mailing costs force us to add a postage and handling fee of 85 cents per order. Make checks payable to the PACIFIC

Make checks payable to the PACIFIC SECTION SEPM. Send checks and form to:

Pacific Section SEPM

P.O. Box 70344, Ambassador Station Los Angeles, CA 90070

#### PACIFIC SECTION — AMERICAN ASSOCIATION PETROLEUM GEOLOGISTS Executive Committee

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NEWSLETTER of the Pacific Section-American Association Petroleum Geologists is published monthly by the Pacific Section.
Material for publication and requests for pre- vious copies should be addressed to JOHN W. LIDSTROM, TEXACO INC., 3350 WIL- SHIRE BLVD., L.A., CALIF. 90010.
Material received by the 10th of each month will be included in the following issue.
CHANGE OF ADDRESS, subscription, and membership inquiries should be directed to: MEMBERSHIP SECRETARY, PACIFIC

MEMBERSHIP SECRETARY, PACIFIC SECTION AAPG, P.O. BOX 1072, BAKERS-FIELD, CALIFORNIA 93302.

## CONSTITUTION

PACIFIC SECTION OF THE AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS

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Adopted: September 1924

Last Amended: April 1976

#### ARTICLE I Name

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

#### ARTICLE II Object

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

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

#### ARTICLE III Membership

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

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

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

SECTION 3 Other persons not members of The American Association of Petroleum Geologists who are interested in the activities of this Section, may subscribe to the publication of the Section "Pacific Petroleum Geologist Newsletter" subject to the approval of the Executive Committee. Non-member subscribers shall not have the right to vote or hold office but may otherwise participate in all activities of this Section.

#### ARTICLE IV Officers

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

SECTION 2 There shall be an Executive Committee consisting of the President, Vice-President, President-Elect, Secretary, Treasurer, Editor of the "Pacific Petroleum Geologist Newsletter" and one Representative each selected by such other cooperating geological societies approved by the then existing Executive Committee.

#### ARTICLE V Funds

SECTION 1 The Executive Committee shall establish the fiscal year, review the financial position of the Section

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

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

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

#### ARTICLE VI Meetings

SECTION 1 Pacific Section meetings shall be held annually or at other times on call of the President. SECTION 2 The time and place of Pacific Section Business Meeting shall be determined by the Executive Committee.

#### ARTICLE VII Elections

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

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

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

SECTION 3 This Constitution may be amended by a mail ballot. Ballots concerning constitutional amendments shall be mailed upon the authority of the Executive Committee or upon receipt by the Secretary of a Petition for Amendment signed by fifty (50) or more members in good standing. A two-thirds majority of the ballots returned and received by the Section within three (3) weeks following mailing to the membership shall be required to pass any amendment.

#### **BY-LAWS**

#### ARTICLE I Committees

#### SECTION 1 Standing Committees

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

- a. Committee on Finance
- b. Committee on Membership
- c. Committee on Planning and Organization
- d. Committee on Legislation
- e. Committee on Publications
- f. Committee on Directories
- g. Committee on Field Trips
- h. Committee on Spring Picnic
- i. Committee on Conventions
- j. Committee on Public Affairs.

#### SECTION 2 Appointments and Tenure

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

#### SECTION 3 Committee on Finance

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

## SECTION 4 Committee on Membership

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

#### SECTION 5 Committee on Planning and Organization

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

## SECTION 6 Committee on Legislation

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

## SECTION 7 Committee on Publications

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

## SECTION 8 Committee on Directories

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

#### SECTION 9 Committee on Field Trips

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

#### SECTION 10 Committee on Spring Picnic

The primary function of the Committee on Spring Picnic shall be to organize a spring picnic which may be sponsored by a cooperating society as mutually agreed upon and approved by the Executive Committee.

## SECTION 11 Committee on Conventions

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

#### SECTION 12 Committee on Public Affairs

The primary function of the Committee on Public Affairs shall be to disseminate knowledge, following Executive Committee approval, to the membership and other relevant entities, about subjects within the scope of the profession.

#### **1976 SEPM FALL FIELD TRIP**

(continued from page 1) Sierra passes. However, if heavy snowfall is late this year northern passes will allow quicker access to Highway 395 and the Owens Valley.

Published geologic maps and reports covering the area and useful on the field trip are: Big Pine Quad., USGS Prof. Paper 470; Blanco Mtn. Quad., USGS GQ 529; Independence Quad., USGS Bull. 1181-O; Inyo Mtns., USGS Map I-506; Waucoba Mtn. Quad., USGS GQ 528. Also an excellent field guide written by Robert Sharp details the geology of the Owens Valley and the area to the south. This guide (Geologic Field Guide to Southern California, Wm. C. Brown, Publ.) is very interesting to follow from the Los Angeles area.

Lodging can be obtained in Big Pine at the Bristlecone Manor Motel, Starlight Hotel, or Big Pine Hotel (Big Pine, California 93513). Lodging is also available in Lone Pine and Bishop. Those wishing to camp may use the grounds at Camp Inyo (Oct. 15) or may use one of the campgrounds in the area: Big Pine Triangle (junction of 395 and 168), Baker Creek (west of Big Pine), Tinemaha Creek, Taboose Creek, or Gooddale Creek (south of Big Pine). Arrangements should be made by participants. Transportation will be by private car and car pooling is recommended.

The deadline for mail pre-registration is October 4, 1976. For further information or telephone reservations (deadline October 11, 1976) contact:

> Kristin McDougall Paleontology and Stratigraphy Branch U.S. Geological Survey 345 Middlefield Road Menlo Park, California 94025 415-323-8111, ext. 2150



The new "cartel" of officers for the San Joaquin Geological Society are: *President* John Carver ...... Occidental 5000 Stockdale Highway

- 5000 Stockdale Highway Bakersfeld, California 93309 Vice President
- Hy Seiden ..... Consultant 1401 Ming Avenue Bakersfield, California 93304 Secretary
- Wes Franklin ..... Tenneco Box 9909 Bakersfield, California 93309 *Treasurer*
- Dick Elliott ..... Occidental 5000 Stockdale Highway Bakersfield, California 93309

Membership Chairman Carrol Blythe ...... Strata Log

Delegate to Pacific Section Rex Young ...... Cities Service

Delegate to AAPG

Bob Morrison ...... Occidental

This great assemblage grouped under Captain John rallied through the summer to carry on the fine organization and progress following Ed Karp and his select group of achievers. Our bank account and future look bright. Hy Seiden has gathered an excellent barrage of experts for this year's coming Tuesday evening encounters at the American Legion Hall. Also, final planning is complete on the Society's Annual All Industry Golf Tournament on September 10th at the Kern River Golf Course, featuring a Santa Maria Style Barbeque a la Willey. Six bucks and all you can eat is unbeatable.

The first speaker of our new year will be R. G. Lindstrom, S.O.C. on October 12 to discuss "TIMING, Geological and Operational – in Urban Development, Los Angeles."

November 9th will counter with Tenneco's J. H. Dorman discussing the most exciting "New Oil & Gas from Mature Provinces," a subject where all can listen and learn.

The society has also finalized this vear's short course to be held February 18 and 19 at West High School. Dr. Tor Nilsen heads up a genuinely expert field of speakers to make simple "Late Mesozoic and Cenozoic Sedi-mentation and Tectonics in Califor-nia." Dr. Tom Dibblee, USGS; Dr. Ben Page ,Stanford, and Dr. Gene Fritsche, CSU, Northridge will speak on subjects ranging from tectonics in subduction zones, through turbidites, early Tertiary tectonics, and into the effects of strike slip faulting to hydrocarbon accumulations, plus much more. For \$30 (\$15 for students) you can't help but refresh that contour/ closure stale, budget/management concerned mind. Even if you can remember what field geology means, vou still can benefit. Watch for the complete announcement in next month's NEWSLETTER.

All in all this summer was a cool, delightful reminder of things to come. Here's looking forward to seeing many new faces in this coming year with hopes that the old ones will be there too.

JEFF SMITH



Greetings again from the Land of the Midnight Sun or the Noonday Moon, depending on what time of the year you happen to be looking up. Speaking of looking up, in Anchorage this summer that's about the only direction you can look without having your eyeballs cluttered up with wallto-wall cars. It's geeting so motorized and civilized there is a rumor going around that the nicest thing left about Anchorage is that it is only about a 15-minute drive from Alaska. Just a rumor though, it is really more like a 45-minute hassel on an L.A. freeway without the freeway. Should thin out soon though because like the monkey said when he stuck his tail in a lawn mower - "It won't be long now." there's already a topknot of termination dust on the Chugaches, and according to the trees, next week is going to be fall all week.

Speaking of fall, the AGS is going to have the first meeting of the '76-'77 season September 23 at noon somewhere, and a hamburger and beer bust Friday, September 24, at Jewell Lake, 4:00 - 8:00 p.m. Also of interest, the AGS and SEG Continuing Education Program is sponsoring a course, "Geo-physics for Geologists" by W. B. "Robby" Robinson on October 12, 13, and 14 from 2:30 p.m. - 5:30 p.m. and 7:30 p.m. - 9:30 p.m. daily. The nominal fee is a mere 50 bucks, but you best sign up quick because we expect a limit on the number will be necessary. So sign up like now and send the long green (checks to AGS acceptable as long as they aren't rubberized) to:

> Alaska Geological Society Box 1288 Anchorage, AK 99510

New AKS officers debuting this fall are:

President	
Alex Sisson	Union
Vice President	
Thomas Miller	USGS
Secretary	
Arlen Ehm Co	nsultant
Treasurer	
Linda Bratlie	B.P.
President Elect	
Keith Calderwood Co	nsultant
Enough for now, sure gotta	keep my h Al in

snow machines in tune with Al in office.

Buenos Snowshoes,

DICK E. ATCHISON

#### PACIFIC SECTION CONVENTION

(continued from page 1) urday with a field trip and tennis tournament. Throughout the session, activities will be planned for the ladies. Please plan to attend and partake of Bakersfield's famous hospitality.

STANFORD ESCHNER General Chairman



Everybody was in fine form for our last Northam Station barbecue. The steaks, wine and beer were great and so were our speakers, Dr. Marty Link of Harbor College and Dr. David Howell of the USGS in Menlo Park. Their discussion of the "Poway Fan" in the La Jolla area and the OCS was very timely but too limited in scope.

I would like to suggest that our Fall Continuing Education Program be a Symposium on the Tectonics and Sedimentary Evolution of the Continental Borderland from Cape Mendocino to Baja, Mexico. This would include discussions on controversial topics like "Strike-Slip versus Extension," the "Coast Range Thrust," a "Proto San Andreas Fault," etc. Students present at the barbecue included:

Chris Warren – Texas A & M Cristi Stewart – Oregon State Sorena Sorensen – Pomona College Sean Carey – Cal State U, LA Dean Dunn – USC Lori Lyn Cameron – USC Lynda Sue Wall – USC Lee Husgrove – USC Rex Pleg – USC Jessie Vaughan – USC

After presenting the student guests, President Davis noted there were no students from UCLA. At this point he retched and muttered something about UCLA being a substandard university while USC was great.

Unfortunately, he didn't realize it takes a graduating USC geology student at least three to four years of post graduate work at "Texaco Tech" on Wilshire Boulevard to attain the academic level of a UCLA Senior!!!

In the case of a Cal Lutheran graduate (Scott Knight excepted), it takes five years at Union, Santa Fe Springs, to achieve this level.

#### Future LABGS Event

Taix Restaurant, Sunset Boulevard, 12:00 Noon, Thursday, October 21, 1976. Jack Lord, Foreign Exploration Manager for ARCO will speak on the Geology of Indonesia.

TOM REDIN

#### PACIFIC SECTION AAPG EXECUTIVE COMMITTEE MEETING September 9, 1976 Culver City, California

Summary:

1) Pacific Section in strong financial position with \$9,885.47 available cash. 1976 convention excess was \$4,375.69. 1977 convention and directory are thus covered without undue financial strain or stress.

2) Membership for 1976-77 will approach or pass 1975-76 membership of 1100.

3) President Reid will review publications sales and distribution.

4) "Up with Basics" is topic for 1977 convention in Bakersfield. An interesting program is being planned by Chairman Eschner and his committee.

5) A "Photo Directory" wil be published in 1977.

6) Guest, A. O. Spaulding, WOGA requests that the Pacific Section help educate the public about energy and the future.

7) Nominations for office, 1977 will be made before December 15, 1976. Election to be held before 1977 convention.

8) Next executive committee meeting will be held in San Francisco, November 12th.

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

# A CONTRACTOR OF PETERS

## PACIFIC PETROLEUM GEOLOGIST NEWSLETTER

of the Pacific Section American Association of Petroleum Geologists

VOLUME 30

NOVEMBER/DECEMBER, 1976

NUMBER 11/12

### 52nd ANNUAL MEETING PACIFIC SECTION AAPG, SEPM, SEG

Beautiful Downtown Bakersfield (fun city of the San Joaquin) is the site of the 52nd Annual Joint Meeting of the Pacific Sections of the AAPG, SEPM and SEG, to be held April 20-23, 1977, at the Bakersfield Civic Auditorium.

Convention activities will begin at 2:00 p.m. on Wednesday, April 20, with a geopolitical seminar sponsored by the California Section, Association of Professional Geological Scientists or, for the athletically inclined, either a golf tournament at the Kern City Golf Course beginning at 11:00 a.m., or a tennis tournament at the Rio Bravo Tennis Ranch at 12:00 noon.

Serious conventioneers can get down to the really important business of the convention at the Icebreaker cocktail party, 6:30 p.m., Wednesday, April 20, at the Civic Auditorium.

Technical sessions will begin Thursday morning, April 21, following keynote addresses from AAPG President John Moody and SEPM President Robert Shaver. The AAPG program will emphasize the theme "Up With Basics," which, while sounding vaugely indecent, actually describes basic geological principles in the exploration of obscure stratigraphic and structural traps. Be sure to attend, so that you can find out what that means.

The SEPM program will consist primarily of a Symposium on the Paleozoic Paleogeography of the Pacific Coast, first of a three-year series on West Coast Paleogeography during the Paleozoic, Mesozoic and Cenozoic eras.

The SEG program will stress the relationship of well information to the seismic section, interpretation of the seismic section, and modern data acquisition. (More mysteries for the poor geologist to attempt to comprehend.)

The Joint AAPG-SEPM-SEG Annual Luncheon will take place at 12:30 (continued on page 2)

### SAN JOAQUIN GEOLOGICAL SOCIETY SHORT COURSE

#### February 18-19, 1977

**Title:** Late Mesozic and Cenozoic Sedimentation and Tectonics in California.

**Speakers:** Tor H. Nilsen, Convenor (USGS); Thomas W. Dibblee, Jr. (USGS); Ben M. Page (Stanford); Eugene A. Fritsche (CSU Northridge).

**Topics:** Friday, February 18 (9:00 a.m.-5:30 p.m.)

- 1. Subduction Zone Tectonics (Page).
- 2. Strike-slip Tectonics of the San Andreas Fault System and its role in Cenozoic basin evolution (Dibblee).
- 3. Turbidite Facies and Sedimentation patterns (Nilsen).
- 4. Some Principles of Tectonics and Sedimentation and their application to shallow marine and nonmarine sedimentation (Fritsche).
- 5. Sedimentary Tectonics of the Upper Cretaceous Great Valley Sequence, California (Nilsen).

Topics: Saturday, February 19 (8:00 a.m.-4:30 p.m.)

- 1. Early Tertiany Tectonics and Sedimentation in California (Nilsen).
- 2. Oligocene Sedimentation and Diastrophism in relation to the San Andreas Fault System (Dibblee).
- Early to Medial Miocene (Zemorrian to Relizian).
   Medial to Late Miocene (Luisian to
- 4. Medial to Late Miocene (Luisian to Delmontian), Sedimentation and Tectonics in California (Fritsche).
- 5. Plio-Pleistocene and Holocene event in the Great Valley and Coast ranges (Page).
- 6. The effect of San Andreas Fault Strike-Slip Tectonics on hydrocarbon accumulations in California (Dibblee).

**Cost:** \$30.00 for member and nonmembers, \$15.00 for students. This includes the publication, extra copies of which are \$5.00.

Place: West (Bakersfield) High School Student Center, 1200 New Stine Road, Bakersfield, California. **Registration:** Will begin at 8:00 a.m., Friday, February 18, 1977, at the Student Center.

Pre-Registration and additional information, contact:

> TENNECO OIL COMPANY Wes Franklin Box 9909 Bakersfield, CA 93309



#### a three-year program of the SOCIETY OF ECONOMIC PALEONTOLOGISTS and

MINERALOGISTS

Fall, 1976 - 1977 - 1978 - Spring, 1979

The Pacific Section, SEPM, has undertaken a three-year program to document what is presently known about the paleogeography of the Pacific Coast of the United States of America. This program of study will manifest itself in three fall field trips and their accompanying guidebooks, three spring symposia, and a threevolume set of books on "Pacific Coast Paleogeography of the U.S.A."

#### Area to be studied-

All the territory between 114° and 125° W. longitude and 32° and 49° N. latitude (California, Nevada, Oregon, Washington, Western Idaho, and the offshore regions of the Pacific Coast) will be included in this study. **Procedure**—

We will concentrate our study on one geological era each year. In the fall there will be a field trip to study depositional environments of that era in a selected place and in the spring a symposium will be held where contributors will present what is known about the paleogeography of that era. A volume containing papers that include poleogeographic maps for selected time periods in the era as well as papers that deal with the paleogeography of selected areas will be published and available at the time of the symposium. To provide con-(continued on page 2) PAGE 2

#### ANNUAL MEETING ...

(from page 1) p.m. Thursday, and the SEPM Dinner Meeting at 7:30 p.m. Thursday, both at the Civic Auditorium. College Alumni Luncheons will be held at 12:15 p.m. Friday at the Hill House, across the street from the Civic Auditorium.

Serious conventioneers can bring the really important business of the convention to a fitting climax at the Dinner-Dance, 7:30 p.m. Friday at the Stockdale Country Club.

For those dedicated field geologists who can stagger out of bed on time the following morning, busses will leave the Civic Auditorium at 8:30 a.m. Saturday for a field trip to the outcrop area of Midway-Sunset and to Elk Hills.

If your wife refuses to turn you loose in the fun city of the San Joaquin and insists on coming along, ladies' activities include a bus trip to Tehachapi for lunch and a tour of vacation homes at Stallion Springs on Thursday, and a choice on Friday between a round robin tennis tournament or a guided tour of Pioneer Village.

A schedule of events is as follows: Wednesday, April 20 –

- Noon to 5:00 p.m. Tennis golf
- 1:00 to 9:00 p.m. Registration, Civic Auditorium
- 2:00 to 5:00 p.m. Geopolitical Seminar
- 6:30 to 9:00 p.m. Icebreaker Cocktail Party, Civic Auditorium
- Thursday, April 21 -
- 7:30 a.m. Speakers' Breakfast
- 8:00 a.m. Registration, Civic Auditorium
- 9:00 a.m. AAPG-SEPM-SEG Joint Technical Session, Keynote Speakers
- 10:00 a.m. Ladies' Tour of Stallion Springs
- 12:30 p.m. Joint AAPG-SEPM-SEG Luncheon, Civic Auditorium
- 2:30 p.m. AAPG-SEPM-SEG Technical Programs
- 5:00 p.m. Annual Business Meeting, Civic Auditorium
- 7:30 p.m. SEPM Dinner Meeting, Civic Auditorium
- Friday, April 22 -
- 7:00 a.m. Delegates' Breakfast
- 8:00 a.m. Registration, Civic Auditorium
- 9:00 a.m. AAPG-SEPM-SEG Technical Program
- 10:00 a.m. Ladies' Guided Tour of Pioneer Village
- 10:00 a.m. Ladies' Tennis Tournament, Rio Bravo Tennis Ranch

12:15 p.m. – Alumni Luncheons

- 2:30 p.m. AAPG-SEPM-SEG Technical Programs
- 7:30 p.m. Dinner-Dance, Stockdale Country Club

Saturday, April 23 -

8:30 a.m. – Field Trip to West Side San Joaquin Valley to observe outcrops of Stevens Sand

#### SEPM . . .

(from page 1) tinuity to the program and to the

three-volume set of symposia publications, a standard base map will be used for all paleogeographic maps. Each of these standard maps, which will show paleoenvironments in the place where they exist today, probably will be supplemented with palinspastic maps.

<sup>2</sup> Contributors to the Field Trip Guidebooks must have their papers submitted for referring and editing by July 15th of the appropriate year and have final typing done according to prescribed camera-ready form by September 1st.

Contributors to the Symposium Volumes must have their papers submitted for referring and editing by February 1st of the appropriate year and have final typing done according to prescribed camera-ready form by March 15th.

#### Schedule of the program—

Fall, 1976 – (October 15-16, meeting at Big Pine, California) Field Trip to study Paleozoic depositional environments in the Inyo Mountains.

Leader: Johnnie N. Moore, Department of Geology, University of California, Los Angeles, CA 90024.

Spring, 1977 — (April 20-22, meeting in Bakersfield, California) Symposium on Pacific Coast Paleozoic Paleogeography.

Cochairmen: John H. Stewart, U.S. Geological Survey, 345 Middlefield Road, Menlo Park, CA 94025; Calvin H. Stevens, Department of Geology, San Jose State University, San Jose, CA 95192.

Fall, 1977 – (date and location unknown) Field Trip to study Mesozoic depositional environments.

Leader: unknown (looking for a volunteer).

Spring, 1978 - (date unknown, tentatively meeting at Sacramento, California) Symposium on Pacific CoastMesozoic Paleogeography.

Chairman: Ivan P. Colburn, Department of Geology, California State University, Los Angeles CA 90032.

Fall, 1978 – (date unknown, tentatively meeting at Ojai, California) Field Trip to study Cenozoic depositional environments.

Leader: A. Eugene Fritsche, Department of Geosciences, California State University, Northridge, CA 91330.

Spring, 1979 – (date and meeting place unknown) Symposium on Pacific Coast Cenozoic Paleogeography.

Chairperson: Kristin McDougall, U.S. Geological Survey, 345 Middlefield Road, Menlo, Park, CA 94025.

## Call for organizers and contributors—

We are seeking your help to make the Fall, 1977 through Spring, 1979 part of this program of success. If you are interested in contributing to this program in any of the ways listed below, please contact the appropriate chairperson or field trip leader or A. Eugene Fritsche.

1. Field Trip Leader for a Mesozoic depositional environments trip in Fall, 1977.

2. Volunteers to write papers that include paleogeographic maps and that describe the paleogeography of the Pacific Coast for selected time periods. (Papers and maps to be published and presented orally. Volunteers must be prepared to meet deadlines described above.)

3. Volunteers to write papers on the detailed paleogeography of selected areas. (Papers to be published and presented orally. Volunteers must be prepared to meet deadlines described above.) Some papers will be accepted for publication without being presented orally.

#### MICROPALEONTOLOGY SHORT COURSE University of Nebraska June 27-July 7, 1977

Using a team of 10 specialists (J. Platt Bradbury, R. E. Casey, William E. Frerichs, Stefan Gartner, Paul R. Krutak, James L. Lamb, William A. S. Sarjeant, Walter C. Sweet, Leonard R. Wilson, Walter W. Wornhardt, Jr.), the 10 day course will review most of the biostratigraphically important microfossil groups, discuss their ecology and taxonomy, and evaluate their use in petroleum exploration. Course tuition is \$600.00 and includes all required instructional materials. For further details contact Paul R. Krutak. Professor of Geology, Dept. of Geology, 418 Morrill Hall, University of Nebraska, Lincoln, Nebraska 68508, phone (402) 472-2645.

## **U.S. GEOLOGICAL** SURVEY HIRING

The Conservation Division of the U.S. Geological Survey is accepting applications from petroleum geologists, exploration geophysicists, and petroleum engineers to fill positions in Anchorage, Alaska and Los Angeles, California. Successful applicants will be involved in investigations related to the Outer Continental Shelf in preparation for Federal competitive lease sales. Interested persons should contact:

> Mr. Edward Johnson U.S. Geological Survey 345 Middlefield Road, MS 71 Menlo Park, CA 94025 (415) 323-8111



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SHIRE BLVD., L.A., CALIF. 90010.
Material received by the 10th of each month will be included in the following issue.
CHANGE OF ADDRESS, subscription, and membership inquiries should be directed to: MEMBERSHIP SECRETARY, PACIFIC SECTION AAPG, P.O. BOX 1072, BAKERS-FIELD, CALIFORNIA 93302.



The SJGS, as we hope you know, is hosting this year's Pacific Section annual fling. Stan Eschner, our General Chairman, has so well organized the meeting that with nothing else to occupy those many busy minds, the SIGS is sponsoring a super (lative) symposium this February. It's designed to help us relearn those simple yet so complex - stratigraphic principles our profs hopefully crammed into immature, fun loving undergradgrad minds. Sound Greek to you too? well, here's another chance to learn it again. If the word stratigraphic confuses you, see you for sure in Februarv.

On the action scene, Hy Seiden has again outdone himself in preparing a fantastic December ladies' night for the SJGS, but the details will be too late to help you by printing time. Let me say only that if Dr. Ed Laskowski knows as much about Laplanders as Mongolianders, you missed a real treat. Shrimp again, Jerry!!! J. M. Sonosky of United California Bank will follow in January to discuss the ever present "Problem of Financing Energy Companies." Maybe a few solutions, too!

Would any of you wonderful readers consider a short course (UCSB Extension Course) aimed at prepar-ing you to pass the Registered Geologist Exam given by the State each year? If so, drop me a line, Jeff Smith, 200 New Stine Road, Suite 295, Bakersfield, California 93309. A class, if there is sufficient response, will begin in September of 1977 or sooner. We need to know ASAP.

Rumors, Rumors! We hear Union is finally UNITING their Western Region in Ventura next summer. Thanks John. But they are leaving their two best young-uns, Beth Kendall and John Matthews to haunt Bob Carlson and Slim Jim Green. All of us, including those who chose to stay, will miss the whole group. But life goes on . . .

Gulf has been rumored to be preparing a "Regional" office to alleviate their present three to a room program. Let's hope it is true and that they move in or hire enough people to fill the void left by Union to keep our Society strong and active.

Let's hear it for a safe, sane MERRY CHRISTMAS and see you all in February and/or April. JEFF SMITH

## NOR CAL GEOLOGIST WINS COVETED AWARD

Northern California Geological Society is proud to announce the presentation of a Citation for Distinquished Service to member John C. Maher, Office of International Geology, USGS Menlo Park, California on December 7, 1976 by Thomas S. Kleppe, Secretary of the Interior.

"In recognition of achievements in stratigraphic geology and other contributions to the scientific programs of the Geological Survey," the citation states. "For his many outstanding achievements, John C. Maher is granted the highest honor of the Department of the Interior, the DIS-TINGUISHED SERVICE AWARD.

The citation refers principally to Maher's subsurface stratigraphic correlations for locating ground water and petroleum supplies. "His subsurface stratigraphic studies have been a stimulus for the discovery and subsequent development of several oil and gas fields in the Mid-Continent area...future development of Elk Hills, California, oilfield will rely heavily on final results of his work.

Those of us who have worked with John Maher know that his technical ability in subsurface correlation is only part of his professional expertise. The competence he used to chair and organize the successful North Slope of Alaska seminar in February 1970 was repeated in his work as General Vice Chairman for Operations on the first Circum-Pacific Energy and Mineral Resources Conference in Honolulu, 1974. We are assured of the success of the second CPEMRC in Honolulu, 1978 for which John is again Vice Chairman.

Nor Cal Geological Society wishes to add to the citation that John C. Maher has all the qualities to pre-serve and maintain the current pride in the geological society, and promote steady progress toward higher levels of professionalism.

OTTMAR F. KOTICK



NO REPORT.



PAGE 3



#### PACIFIC SECTION AAPG EXECUTIVE COMMITTEE MEETING November 12, 1976

Committee Reports

a) Finance Committee. Proposed Budget 1976-1977 received from Don Hallinger showing income projected sufficient to cover expenses including \$2,721.00 to be spent on special membership activities. IEC (Informal Executive Committee) recommends approval of Proposed Budget 1976-1977 and recommends use of \$2,721.00 in funding national AAPG speakers for cooperating societies.

IEC recommends that the \$2.00 per member rebate from the Pacific Section to cooperating societies be made as soon as practical after January first, each year, based on membership at January first. The rebate payments to be made in 1977 would be net of amounts paid after July 1, 1976, by the Pacific Section Treasurer for the accounts of cooperating societies. The effect after January 1, 1977, will be that each cooperating society will pay its own bills and there will be a full year between rebate payments.

b) Publeciations Committee. President Reid reported that no meeting had yet been held with Carl Evans to discuss the problems of the Publications Committee. Bob Davis reported that over 100 copies of "Aspects of the Geologic History of the California Continental Borderland" had been sold at the L.A. Basin Geological Society short course held November 1, 2 and 3. It was suggested that the President look into the possibility of utilizing storage space and paid personnel at the Bakersfield core repository for handling publications.

c) Directories Committee. President Reid reported that Marilyn E. Tennyson had resigned as 1977 Membership Directory Chairman and that Robert Davis had been appointed to take over as Chairman. Mr. Davis reported that one price quotation for typesetting, printing, etc., had been received and that the Pacific Section AAPG and SEPM membership had been furnished personal data cards, many of which had already been returned to him. He noted that the Pacific Section SEG membership still had to be circulated. Mr. Davis also recommended that a photographer be present at the

Bakersfield 1977 Convention to take pictures for future directories. Mr. Davis wants all pictures for the 1977 directory ot be in his hands by the first week of January, 1977. He will have a mock-up of the directory ready by February I. Mr. Davis will need some help to construct an employers' list for inclusion in the directory.

d) Spring Picnic Committee. Bob Davis reported that the new President of the L.A. Basin Geological Society will plan the Spring Picnic when he takes office next January.

e) Conventions Committee. Stan Eschner, General Chairman of the 1977 Convention in Bakersfield, reported through President Reid that the flier announcing the convention theme, program, and activities will be mailed on or before November 19. He noted that thumbnail abstracts of papers to be presented will be in the hands of national AAPG by November 15 for later printing in the Bulletin. A first exhibit flier is scheduled for mailout by December 1. The Committee had established a checklist of critical deadlines and everything appears to be on schedule.

Mr. Eschner also reported that he had received a call from Frank Simmons of Standard Oil Company in San Francisco suggesting a fishing trip to Baja California, following the convention, tied in with appropriate geologic meetings to make the trip deductible for tax purposes. It was the recommendation of the IEC *not* to sponsor such a trip.

Jim Weddle, General Chairman of the 1978 convention in Sacramento, reported that key committee assignments had been made and that the Red Lion Inn had been chosen as the convention site. He noted that some expenses were being incurred and asked for an advance of funds. Mr. Reid stated that he would discuss the matter with Treasurer Howard Stark and that he did not expect an advance to be a problem in view of the good financial position of the Section.

#### Old Business

a) State Board of Registration for Geologists and Geophysicists vacancies. The IEC recommended that the President contact Ted Off, Doug Traxler, Ed Hall, and Pete Hall (District 4) about serving on the State Board if appointed by the Governor, and if they accept, the President to submit their names to the Governor.

b) Printing the maps and works of Tom Dibblee.

Vernon Stephens reported that a USGS librarian had compiled a com-

plete list of published and open-file maps, bulletin,s professional papers, etc., which were the work of Tom Dibblee. Mr. Stephens estimated that the printing of the complete set would require a sales price of \$150.00 per set and that it would be impractical to make individual maps available (i.e., break up sets). The IEC recommended *against* attempting publication, but suggested that the Executive Committee explore another method of honoring Mr. Dibblee in his lifetime such as a "Tom Dibblee Scholarship" or "Tom Dibblee Award for Excellence in Field Study," etc.

#### New Business

a) Reports from Societies. Los Angeles Basin Geological Society President, Robert Davis, reported that the L.A. Society had held on November 1, 2 and 3 a highly successful continuing education program entitled "Tectonics, Structure and Stratigraphic Evolution of California. Attendance was about 150 persons. The L.A. Society may held a free program in January, 1977. Election of Society officers will be conducted in early December.

San Joaquin Geological Society will conduct a short course February 19 and 20, 1977, entitled "Late Mesozoic and Cenozoic Sedimentation and Tectonics in California."

b) Contacts with Legislators. The IEC recommended that an appeal be placed in the PACIFIC PETROLEUM GE-OLOGIST NEWSLETTER for any members having personal contact with a Legislator (State or Federal) to get in touch with Art Spaulding at Western Oil and Gas to be placed on WOGA's "hotline" for contact when legislation vital to the industry is being considered.

c) Nominees for National AAPG Office. The IEC had no recommendation for nomination of persons for National AAPG office.

d) Endowment Fund for Core Repository. Jim Weddle reviewed the financial arrangements for building and maintaining the core repository in Bakersfield. He suggested that the Pacific Section AAPG consider an annual financial contribution toward maintaining the repository, paying salaried help, etc. No recommendation was made by the IEC and the matter was taken under advisement.

e) Next meeting will be January 7, 1977, somewhere on the coast from Santa Barbara to Ventura. Other meetings are scheduled in Bakersfield on March 4 and April 1, 1977.

REX YOUNG, Temporary Secretary

## Publications, Pacific Section AAPG and Affiliated Societies San Joaquin, Coast, Northern California, Alaska, and Los Angeles Basin Geological Societies

## Society of Economic Paleontologists & Mineralogists—Pacific Section Society of Exploration Geophysicists—Pacific Section

Order from and make checks payable to: Publications Committee, Pacific Section AAPG

c/o Carl Evans, Texaco Inc., 3350 Wilshire Blvd., Los Angeles, CA 90010

#### GUIDEBOOKS

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- SA 4-Hollister to Bitterwater Valley
- SA 5—Bitterwater Valley to Parkfield
- SA 6-Parkfield to Soda Lake
- SA 7-Soda Lake to Santiago Creek
- SA 8-Santiago Creek to Sawmill Mtn.
- SA 9-Sawmill Mtn. to Valyermo
- SA 10-Valyermo to Mexican Border
- SA 11—San Andreas Composite Cross Sec. Summary of SA 1-SA 10 on 1 sec.

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(AAPG) 1976 .....\$5.00

## J. D. Moody on Energy

J. D. Moody is a widely experienced energy consultant based in New York City. He is 1976-77 president of the American Association of Petroleum Geologists and a former senior vice president of Mobil Oil Corporation. Condensed below is Mr. Moody's presentation to a recent Transco-sponsored meeting for representatives of customer companies.

The events of recent years have made us all acutely aware of the critical interplay of three factors — utilization of natural resources, growth of population, and degradation of the environment. Our quality of life hinges on these three things.

The more natural resources we are able to make use of, the better our quality of life can become. If population increases but other factors remain constant, life quality declines. As population increases, so does environmental degradation.

These are the inescapable tradeoffs that will shape our future. Citizens and their governments must work on determining what sacrifies will be necessary, and which ones we are willing to make, to achieve a livable balance.

As this country's population was climbing during the last 20 years, an area the size of the etntire state of Ohio was paved or converted to urban use. What should we expect in the future?

In 1850, the world's population was about one billion people. It doubled in the subsequent 75 years to two billion people. The next doubling time, from two billion to four billion, was 50 years.

Now, the next doubling period is estimated to be only about 35 years. There will be perhaps eight billion people in the year 2010, and it would seem that little can be done to change that rapid growth.

Against this backdrop, we must consider natural resource utilization as it affects our quality of life, and basically, a discussion of natural resources is a discussion of energy requirements.

All kinds of metals and industrial raw materials can be expressed in terms of energy because it takes energy to get them out of the ground and to make them available to us. We can therefore express any of these resources in terms of Btu's (British thermal units).

Natural resource utilization is primarily use of energy for fuel and transportation, energy for space heating, and energy for food. The United States is far ahead of the rest of the world in agricultural activities, which are becoming more energy-intensive

all the time. Energy for food production in the United States is highly efficient and the envy of other nations, but it is rapidly becoming more costly. A kilocalorie of protein in India, for example, costs about \$10, whereas in the U.S. it costs about \$40.

Back 100 years ago, agriculture was dependent solely on solar energy. But through the application of such things as high-energy fertilizers and highenergy tractors, we have greatly improved our agricultural output. Nevertheless, on an energy-balance basis, we are losing ground.

The most efficient method of feeding people is through hunting and gathering, where a single Btu of investment yields about 30 Btu's in return (but this presumes that there is something to hunt and gather!). Contrast that with growing corn in Iowa, where we invest a Btu and we get back only about 2.8 Btu's. For soybeans, we invest 2 Btu's for every Btu returned. We invest 10 Btu's for a Btu of rice. We invest 33 Btu's for a single Btu from commercial fishing. We invest 78 Btu's for one Btu from cornfed beef.

These are extravagances and we can hardly afford them. The production of electricity takes three Btu's of energy in the form of gas or coal to make one Btu of electricity. Yet our whole life style is moving in the direction of being electrified. The efficiency has to be improved if we're going to be able to continue to do this.

In the past we have relied heavily on technological improvements – or what I call quick technological fixes, or "QTF's" – to solve our problems for us. We've been quite successful at it. However, we are running into physical limits of resource availability, physical limits in terms of population growth and the destruction to the environment, the reduction of the capability of the land to support life.

Energy is intimately involved in these trade-offs of population, environmental degradation and life quality. We can't punch one of these buttons and not have another button pop out.

What about energy source availability? The measure of the *un*availability of energy is called "entropy." There is a tremendous economic pressure to use our low-entropy energy sources first – those energy sources that are most concentrated. The higher-entropy energy sources are used later, since they cost more to develop.

The lowest-entropy energy source

available is heavy hydrogen. The next most concentrated form is uranium. Then we have the fossil fuels, crude oil, natural gas, coal, tar sands. Next are geothermal steam, water power, solar energy, tidal energy, winds, geothermal hot rocks, atmospheric electricity, and so forth.

These regular sources of energy can be divided into stocks and flows. I use the word "stock" in an economic sense, that is, something replenishable but not renewable. A "flow" is renewable. Now we can see that heavy hydrogen, uranium, and the fossil fuels are all stocks, and uranium and the fossil fuels exist in limited amounts. On the other hand, the energy sources that are flows, or essentially unlimited, are generally higher-entropy types of energy: geothermal steam, solar energy, geothermal hot rocks, and atmospheric electricity.

The really vast sources of energy, and the ones which we must view as our ultimate energy sources, are heavy hydrogen and solar energy, geothermal hot rocks, and atmospheric electricity. If we could tap these sources in any meaningful way, we could solve a lot of our problems. All the other sources of energy are basically limited, the term "limited" being relative. Nevertheless, all of our fossil fuels and uranium, the sources of energy we're using most now, are limited.

In addition to uranium, crude oil, natural gas, and coal, we now use some geothermal steam, some water power, and some solar energy. The application of solar energy is mainly limited to collectors for space heating. The optimum use of solar energy would be direct conversion into electricity, but this is probably going to become available only after the year 2000.

The only major new source of energy that might come on strong enough to make a real impact before the year 2000 is the development of tar sands. Nevertheless, the difficulties in producing this energy and in building the plants to make it available are such that we have a significant time lag with which to deal. All the other possibilities-heavy hydrogen, breeder reactors, synthetics from coal, synthetics from oil shale – are probably beyond the year 2000. That means we're looking at a time gap of 25 to 30 years that we must bridge with our present sources of energy – uranium and the fossil fuels.

We can convert the world's oil, gas, tar, oil shale, coal, and uranium to (continued on page 8)

probably over 75 per cent, of the world's natural gas is in giant gas fields which we define as fields with more than 3 trillion cubic feet recoverable.

The Tyumen Basin of Siberia has over 20 giant gas fields, and it includes the world's largest known single gas field, which is estimated at around 210 trillion cubic feet of gas.

We have to find more giant fields, of both oil and gas, in order to make much of a dent on our energy supply problems as we now perceive them. We have to find gas fields that have trillions of cubic feet of gas, and we have to find oil fields that have billions of barrels of oil.

To put this into proper perspective, Russia has three or four oil fields that have more than 10 billion barrels of reserves. Most of the oil fields of that size are in the Middle East, while the remainder of the entire free world has three – only three. One of these is at Prudhoe Bay on Alaska's North Slope, while the other two are in Venezuela and Indonesia.

In 1974, I estimated that there were 443 trillion cubic feet of gas in the U.S. yet to be discovered. The U.S. Geological Survey is now estimating 484 trillion cubic feet yet to be discovered. A major oil company published a number earlier this year of 526 trillion cubic feet available for discovery. How good are these estimates of undiscovered recoverable hydro-carbon resources? Although surprisingly consistent, they are probably poor, because these numbers are really unknowable.

There's no way for us to ever know what these amounts really are because we'll quit exploring at some point. In 20 years or so, exploration will taper off because the cost will have become so high in relation to the results. Only about two-thirds of what is estimated to be in the ground will actually be found, and perhaps onethird will remain undiscovered in fields undrilled.

Estimates of recoverable but undiscovered resources in the past have never been even close to being accurate. For example, regularly since 1925 someone has predicted that the United States was about to run out of oil, and we have consistently proved such estimates to be wrong. Let's hope that all the estimates now being made will be proved to be just as low compared to actual undiscovered resources.

But that we have an energy problem is obvious, yet this in no way means that there isn't enough oil and gas yet to be found for exploration to be worthwhile. (continued on page 9)

## Types and Magnitude of Energy Sources

Moody classifies present and future energy sources according to whether they exist in finite quantities (stocks) or replenish themselves (flows), and according to whether they are potentially vast or limited in application.

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	STOCK	FLOW	VAST	LIMITED
Heavy hydrogen	•		•	
Uranium	•			•
Crude oil	•			•
Natural gas	•			•
Coal	•			•
Tar sands	•			•
Oil shale	•			•
Geothermal steam		•		٠
Water power		٠		•
Solar energy		•	•	
Tidal energy		•		•
Winds		•		•
Geothermal hot rocks	•		٠	
Atmospheric electricity		•	•	

Btu's in computed percentages and divide them geographically around the globe. Of the six major sources that we now use, Russia and China have a combined 33 per cent of the world endowment of energy. The United States has 30 per cent and Canada, 12 per cent, or about 42 per cent in North America. That means three-fourths of the world's energy is either in the United States and Canada or in Russia and China. The rest of the world has about 25 per cent.

Relative percentages of fossil fuels and uranium show that oil and natural gas liquids represent only about 4 per cent of the world's total; natural gas, 2 per cent; tar sands, 2 per cent; oil shale, 3 per cent; coal, 44 per cent; and uranium, 44 per cent. Therefore, the world is not facing an energy shortage; it's facing an energy availability shortage, because economic considerations force us to use our lowentropy energy sources first, and those are oil and nautral gas primarily. We are geared so heavily to using oil and natural gas that we're drawing these stocks down at an unprecedented and unacceptable rate.

The total energy endowment of the Middle East is only 1 per cent, but that 1 per cent is highly concentrated in the world's largest oil fields – extremely low-entropy sources of energy. So with just 1 per cent of the world's total Btu's, the Middle East is able to quadruple the price of crude oil and make it stick. OPEC can hold the world to ransom with only 1 per cent of the world's energy.

We estimate the total natural gas resource base of the world at 8,300 trillion cubic feet. Of that amount, 3,000 trillion have been discovered and 5,000 trillion remain to be found. We're better off in natural gas than we are in crude oil because we have large amounts of discovered natural gas that have not yet been produced; we have produced only 759 trillion cubic meet of our over 3,000 trillion cubic feet that have been discovered.

Russia and China are more heavily endowed with natural gas than any other area in the world, with a probable total of 2,731 trillion cubic meet, of which 2,000 trillion cubic feet is yet to be discovered, according to our estimates. That is twice the amount in the Middle East and approximately twice that in North America. Most of the natural gas that we can anticipate discovering in the future is going to be in Russia and a lesser amount in China. That doesn't mean, however, that there's not a lot of gas yet to be found in the United States.

The U.S. is the only area that has already experienced a really large amount of natural gas production, but Western Europe is producing natural gas at a large rate now and is drawing down its reserves fairly rapidly. Gas development in the Middle East and the U.S.S.R. is only getting started, even though vast amounts have been discovered there. A large percentage, It appears that at long last Congress is beginning to come around a little bit and there's some hope that the people in Washington are beginning to see the problem in its true perspective. They need to encourage our energy companies to find as much oil and gas in the United States as they possibly can.

Government has been very remiss, however, in dong much about establishing an energy policy. Whatever energy policy is finally devised in Washington, it should be one that thoroughly contemplates and understands the trade-offs I mentioned initially between life quality, population, energy utilization, and environmental degradation.

We need an energy policy that takes as much pressure as possible off demand, that emphasizes conservation as well as supply. We clearly must be more efficient and more effective in the way we use energy. There simply isn't enough energy in the world to accommodate the population growth we're going to experience and at the same time maintain our current life style. We have to tighten our belts somehow, and we have to be more careful with the energy we do have.

## CIRCUM PACIFIC ENERGY CONFERENCE

The Circum-Pacific Council for Energy and Mineral Resources will present its second conference July 30-August 4, 1978 at the Hilton Hawaiian Village, Honolulu. This international conference is sponsored by The American Association of Petroleum Geologists, The Committee for Coordination of Joint Prospecting for Mineral Resources in Asian Offshore Waters, The Pacific Science Association, The American Mining Congress, and the University of Hawaii and supported by about sixty geoscience societies around the world. Approximately 120 papers on petroleum, oil shale, tar sands, coal, geothermal energy, nuclear energy, minerals, ores, and groundwater will be offered by outstanding international scientists, economists, and statesmen. Pre- and post-Conference geological field trips similar to those in 1974 will be conducted on the islands of Kauai, Oahu, Maui, and Hawaii by experts from the University of Hawaii and the U.S. Geological Survey. A trip through the Halawa Water Tunnel will be available by courtesy of the Honolulu Board of Water Supply.

Although patterned after the very successful 1974 Conference, the program for the 1978 Conference has been expanded to include more and

larger international educational exhibits, a special half-day seminar on environmental geology conducted by Thomas L. Wright, an evening public lecture on "Earthquakes and the Ring of Fire" by Barry Raleigh probably at a downtown location, and a pre-Conference workshop led by Robert E. Garrison.

Perhaps the largest addition will be the pre-Conference workshop, a product of the Circum-Pacific Council's Geoscience Training Committee. The subject will be subsurface methods in relation to basin analysis and resource appraisal. Basic concepts of sedimentation will be discussed but emphasis will be placed on the use and interpretation of geophysical tools in boreholes to obtain data for analvsis of structure and stratigraphy of basins in relation to its possible resources. The workshop will be designed primarily for those international students who do not commonly use these subsurface tools and methods; however, others desiring a refresher course in basic principles will be welcome. Registration probably will be limited to 100 persons. Preregistration will be required and a special fee of about \$25.00 each will be necessary to cover printing and mailing costs.

JOHN C. MAHER, USGS 345 Middlefield Road Menlo Park, CA 94025



1976-Great, Super, Active! Those are words which describe the feelings for the majority of us in the petroleum industry in the Sacramento Valley during 1976. The last six months proved to be very active, both in the tempo of exploratory drilling and variety of meetings and discussions which members and guests attended. The Sacramento Petroleum Association had a record year in both membership and attendance of the weekly luncheon meeting. I haven't seen Don Pinnell, S.P.A. Secretary-Treasurer, so elated since taking office two years ago.

✓ Mr. C. John Miller was the distinguished guest speaker before members of the California Independent Producers Association and their invited guests on Wednesday, August 11, at the Red Lion Inn, located in Sacramento. Mr. Miller, "Wildcatter" and a past President of the Independent Petroleum Association of America, has often been described as the "Oilman's Oilman" and presented a stimulating discussion on the adverse influence our California Congressmen

are having on us as a consumer and its far reaching effect on our nation. Mr. Miller was particularly well qualified for the presentation in view of his knowledge of this country's energy regulation and legislation.

✓ On Friday, September 24, the Northern California Chapter of the A.P.I. held its Annual Golf Tournament and Barbecue at The Yolo Flyers Club in Woodland. The event, as in previous years, was a tremendous success, and over one hundred members and guests attended "happy hour" and steak dinner. Congratulations to A.P.I. Chairman, Jim Cogbill, and the members of his staff for their time and effort in planning this year's tournament and barbecue.

✓ Over the last several months, a number of individuals in the Sacramento area have turned their efforts to various phases of consulting. Business must be slow – they show up more frequently and stay longer at the weekly S.P.A. meetings.

Harold Bertholf, geological and petroleum engineering consulting. Address: 2775 Cottage Way, Suite 24, Sacramento, CA 95825, Tel: (916) 485-9164.

Henry J. Cavigli-J. Hubert Mee, Jr., Petroleum Consultants – in the area of land negotiations, well analyses, drilling permits, unitization agreements, oil and gas field valuations, and related subjects. Address: P.O. Box 22815, Sacramento, CA, Tels: (916) 422-5799 or 456-9870.

James R. Weddle, Consulting Geologist. Address: 2931 Lacy Lane, Sacramento, CA 95821, Tel: (916) 483-1810.

Herbert E. Wheeler, Jr., Petroleum Engineer – all phases of petroleum engineering relating to oil, gas and geothermal wells. Address: 2775 Cottage Way, Suite 24, Sacramento, CA 95825, Tel: (916) 485-2715.

✓ On November 16th the Northern California Chapter of the A.P.I. presented a dinner meeting with distinguished speaker at the Veterans Memorial Building in Rio Vista. Following a period of "attitude adjustment" approximately one hundred members were treated to a fantastic New York steak dinner prepared by its own A.P.I. gourmet chefs. Speaker for the evening was Mr. M. G. "Marty" Mefferd, Chief Deputy Supervisor, Division of Oil and Gas, Sacramento. Mr. Mefferd's talk was entitled, "Update—Division Happenings and Legislation" and was an extremely informative and timely discussion of the recent changes in the Division regard-(continued on page 10)

#### PAGE 10

#### SACRAMENTO ....

(from page 9)

ing personnel and legislation recently passed as part of the Public Resources Code relating to oil, gas, and geothermal wells to be implemented during 1977. Some of the specific areas of legislation discussed were indennity bonds, oil and gas well testing, well records, geothermal resources study and gas storage well assessment. Mr. Mefferd also mentioned some of the items currently under consideration for future state policy, such as the proposed federal regulations concerning State Underground Injection Control Programs. The talk was well received by everyone, and certainly much needed with the changes in legislation occurring within the last year.

The S.P.A. has been quite active over the last six months, and there is every indication to expect that it will continue over into the new year. Mem-bership has increased by 50% over 1975, and because of this, it may become necessary to look for more room to hold the weekly luncheon. Some of the members are even *forced* to remain in the cocktail lounge because of lack of seating. Along with the usual business portion of the luncheon, there have also been a number of short, informative talks given by members on a variety of subjects related to the petroleum industry. Some of the subjects covered to date are circulating systems and drilling mud; well logging, casing and cementing, mud logging, and lease acquisition. A number of other subjects will be covered during 1977 to update and refresh all of us in areas of the petroleum industry where we aren't directly concerned.

▶ Roland J. Bain's "Summary of Exploration Activity in the Sacramento Valley for 1976" is in the process of being completed and will be available in mid-January. Roland compiles the drilling data at the end of each year and presents it in a short 4-5 page report on behalf of the S.P.A. An announcement will be made in the P.P.G. NEWSLETTER when the report is available and where to write for a copy.

Finally, at least for this year, the Voyager Inn at Davis was the site for a "Gas Patch" Christmas party on December 10 hosted by BJ Hughes, Inc.; Calada Materials; Go International; Lyons, Inc., and Midway Fishing Tool Co. The party was a super event, and will make the transition into the new year a little easier.

**TERRY PLUMB** 

## STATE BOARD OF REGISTRATION

Mr. William Park, a consulting geologist in Bakersfield, was elected President of the State Board of Registration for Geologists and Geophysicists at the August 4 meeting. Dr. Charles F. Richter was elected Vice President. Mr. Park replaced Ted Bear as President and Dr. Richter replaced John Curran as Vice President.

Three vacancies exist on the board because the terms of three members expired on June 1, 1975. Appointments to the board were not made and Ted Bear, John Curran and Wilferd Peak served for one additional year.

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The State Board of Registration for Geologists and Geophysicists has scheduled a geology and geophysics examination for May 20, 1977, and the engineering geology examination for May 21, 1977. New applications must be received by February 20, 1977. Applicants who are retaking the examination must submit their applications by March 20. Examinations will also be given for geology and geophysics on November 18, 1977, and for engineering geology on November 19, 1977.

If you have any questions regarding the examinations, please contact the Board office at 1020 N Street, Room 421, Sacramento, California 95814, telephone (916) 445-1920.



A group of Geologists are trying to set up a fishing and rock viewing trip to the La Paz area of Baja California in May of 1977. The schedule would include three days of ocean fishing and two days of travel by air from Los Angeles – for a very low cost of about \$300 (inclusive). To get this rate, we need 40 people. If interested call or write me as soon as possible – bookings are often made a year in advance. An excellent description of the area (Buena Vista) may be found in the book "Sea of Cortez" by Ray Cannon. The big game fishing can be phenominal!

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NEWSLETTER Pacific Section A.A.P.G. P.O. Box 1072 Bakersfield, California 93302



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