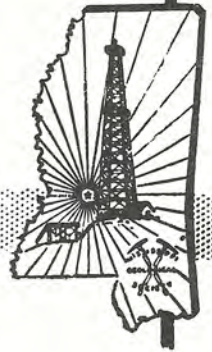


NEWS

BULLETIN

mississippi geological society



Vol. XXX, No. 10, September, 1974

GOLF AND BARBEQUE KICK OFF 36th YEAR OF M.G.S. ON SEPTEMBER 6

FALL GOLF TOURNAMENT

Date and site of the Annual Mississippi Geological Society Golf Tournament has been set for Friday, September 6, at the challenging Live Oaks Country Club.

Verne Culbertson and Dean Kebert are co-chairmen for this event, and they suggest that everyone make up their own foursomes, then pre-register by calling Verne at 355-7831 or Dean at 956-2537. Latecomers will be able to form foursomes at the registration desk. The green fee this year is \$3.50 plus \$1.50 for the prize pot. Defending champ is Mike Pryor. Make plans to be there at tee off time, 9:00 a.m.

Prizes will be awarded and refreshments will be on tap.

MISS GEOLOGICAL SOCIETY CALENDAR

Aug. 23	Geological Discussion Group Smackover Room - Petroleum Club 12:00 Noon
Aug. 24-31	AAPG Circum-Pacific Energy and Mineral Resources Conference Honolulu, Hawaii
Sept. 6	MGS Golf Tournament Live Oaks Golf Club Tee Off 9:00 a.m. MGS Barbeque Fowler Buick Lodge Doors open 4:30 p.m. - Dinner 6:30 p.m.
Sept. 13	Geological Discussion Group Smackover Room - Petroleum Club 12:00 Noon
Sept. 17	Petroleum Auxiliary Membership Coffee Home of Mrs. Marvin Oxley 1432 Woodside Drive 10:00 a.m. to 12:00 noon
Sept. 19	JGS Barbeque Miss. Power and Light Co. Lodge Doors open 4:00 p.m. - Dinner 6:00 p.m.
Oct. 11	Geological Discussion Group Smackover Room - Petroleum Club 12:00 noon
Oct. 16-18	GCAGS Annual Convention Lafayette Municipal Auditorium Lafayette, Louisiana

For reservations to the MGS barbeque call T.C. Rader (948-4128) by noon, Wednesday, Sept. 4.

BARBEQUE TO BE HELD AT FOWLER LODGE

The Mississippi Geological Society Annual Fall Barbeque will be held at Fowler Buick Lodge on the Ross Barnett Reservoir following the MGS Golf Tournament. The lodge doors will be opened at 4:30 p.m., and beer will be available from then until closing. The barbeque will be served at 6:30 p.m.

Both the spring and fall barbeques have always been popular affairs with the membership and usually draw the largest crowds of the year. Consequently, the opportunity is ripe for all members to meet one another and make plans for the coming MGS year. The cost of the barbeque this year is \$5.00 and, also, your dues must be paid. Dues may be paid to the secretary in advance or paid at the door the evening of the barbeque.

Those MGS members who attended the barbeque last spring will be happy to know that the Halliburton crew will be on the job again preparing the feast. T. C. Rader and his side kick J. C. (Daddy-O) Phillips, offer the following menu:

Hors d'oeuvres - peanuts and barbequed sausages
Meats - barbequed beef and ham steaks
Vegetables - barbequed beans, potato salad
Hot "Oil Field" Biscuits - Olives - Pickles - etc.
Beer - tea - coffee

Newcomers to the Jackson area should follow I-55 North to the Northside Drive interchange, exit east on Northside Drive then turn left on Old Canton Road. Proceed northeast on Old Canton Road for approximately six miles to the Ross Barnett Reservoir crossroads, turn right, go to the first intersection and turn left to the west side of the reservoir. Follow this road until you see an MGS sign at the entrance of the Fowler Buick Lodge.

Reservations are a must and everyone planning on going should call T. C. Rader's office at 948-4128 no later than noon Wednesday, September 4.

JGS BARBEQUE SEPT. 19

The Jackson Geophysical Society will kick off its 1974-75 year with a barbeque to be held September 19 at Costas Lodge. Tom Clements, head chef, says that the doors will be open at 4:00 p.m. with free beer for all, and that dinner will be served at 6:00 p.m. This event is a "freebie", but your \$5.00 dues must be paid.

JGS extends an invitation to all MGS members.

OFFICERS

W. C. (Gene) Taylor (To Be Elected)	President	Consultant
Elwood M. Rulh	1st Vice President	
Sarah Childress	2nd Vice President	Florida Gas Explor. Co.
Jim White	Secretary	Miss. Geological Survey
	Treasurer	Marr Co.

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Stewart Welch	AAPG House of Delegates	Consultant
J. B. Goldman, Jr.	AAPG House of Delegates	Florida Gas Explor. Co.
John Myers	GCAGS	Placid Oil Co.

NEWS BULLETIN STAFF

Ed Luper	Editor	Miss. Geological Survey
Paul Gribas	Advertising Mgr.	Shenandoah Oil Co.
Jim McMullen	Statistics	Petroleum Information

Printed in Jackson, Mississippi

LETTERS TO THE EDITOR

Mr. Ed Luper
Editor, Miss. Geological Soc.
Miss. Geol. Survey
2525 North West Street
Jackson, Mississippi 39216

Dear Mr. Luper

There is a fact that should be of concern to all Mississippians.

New federal land regulations in Utah have effectively removed two thirds of that area from oil and gas exploration (Quarterly Review Utah Geological and Mineral Survey, Feb. 1974, p. 14). In this, Utah did not even get the courtesy of being consulted. This year as well, Alaska is in an even worse plight with respect to any effective mineral exploration for similar cause. I am sure these are not isolated cases.

Much oratory has been expended about a "plan" for mineral and fuel self-sufficiency. This nation once had such self-sufficiency under laws which Congress enacted in 1872 and 1920, for the most part. But the people's rights to the public domain, once assured by congressional law, are now being challenged by executive decree. Presidential power is constricting the very public domain itself.

As a geologist I fail to see how restricting exploration is going to free us of dependence.

The U.S. Department of the Interior's 1975 budget request (Geotimes, March 1974, p. 26) should not increase our confidence in the future. If we add Sport Fisheries, Outdoor recreation, and the Parks we find more than twice any sum that could be remotely allocated for development of further mineral and fuel supplies. Compared to some other items the Geological Survey budget is an insult to our intelligence. The president must plan for us to be the most relaxed and recreated starving nation in the world.

Very truly yours,

Bahngrell W. Brown
Professional geologist A.I.P.G.

RESULTS OF AAPG ELECTION

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

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

The 1974-75 president, who took office July 1st, is Merrill W. Haas, a vice president of Exxon Co., USA, Houston.

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

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

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

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

ALTERNATE SOURCES OF ENERGY

Petroleum geologists should work for the development of a national energy policy including energy sources other than oil and gas as a means of alleviation the nation's fuel shortage, according to Merrill W. Haas, president of the American Association of Petroleum Geologists.

Such an energy policy "calls first for recognizing that all energy forms are interrelated," Haas writes in the current AAPG Bulletin. "The forces affecting one fuel also affect the others."

One reason for the oil shortage is that coal and nuclear power have not been developed as they should, thus putting too much of the load on petroleum, he said. Haas, who is vice president for exploration of Exxon Co., USA, Houston, took office as head of the 16,000-member international association of oil hunters July 1, succeeding Dr. Daniel A. Busch, Tulsa consultant.

Geologist, Haas said, should work not only at finding new energy supplies, but be in the forefront of those with a solid contribution to make toward establishing a national energy policy.

"The shortage of natural gas, the ban on high-sulphur coal, and the delayed entry of nuclear power into the energy market have increased the demand for oil," he said. "They have combined to make oil the fuel that has been called on to balance our national energy requirements by making up the shortfalls in other forms of energy.

"The result is that today there is simply not enough domestic oil available to do the tasks expected of it."

Haas said that Americans must develop a national sense of purpose about energy and conservations, and support it with a sound national policy.

PRESIDENT'S NOTES
by Gene Taylor



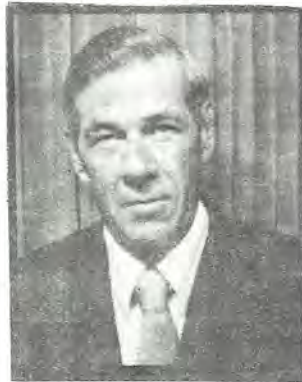
W. E. (Gene) Taylor
President



Elwood Ruhl
2nd Vice President



Sarah Childress
Secretary



Jim White
Treasurer

How quickly another geological society year has arrived. I consider being your president for the coming year a distinct honor.

No sooner had the slate of officers been determined than almost immediately we lost our 1st Vice President, Harry Fritz. The Society will miss Harry and the other members of Gulf Oil Company.

This year promises to be a busy one for our Society. The G.C.A.G.S. Convention will be held here in Jackson in the fall of 1975. In order for this convention to be a success, every member of our society will have to cooperate by volunteering his or her services. I urge each of you to take a few moments of your time to decide what you can contribute toward the preparation of this event. Contact either Bill Moore, Miss. State Geological Survey or Charles Williams, Mid-Continent Oil & Gas Assoc., and offer your services.

During this coming year, I would like to see a program initiated that would make the people of this state aware of the vital role the geologist plays in the community. The purpose of this endeavor would be to enhance the image of the geologist or earth scientist to the businessman, the politician, the office clerk, the housewife, the laborer, etc. I believe very few people realize the important role the geologist plays in the economy of our state. The revenues this state realizes from severance taxes on the natural resources alone are a big percent of the total taxes collected. Few people are aware that the geologist is responsible in exploiting and replenishing these resources. Within the past five years, the geologist has assumed his part in the Apollo program of N.A.S.A. and during the past year the energy crisis this nation faced made many people realize the important role the geologist plays in supplying our energy needs.

I am not positive just how to go about this so I solicit any suggestions and would like to hear from any member concerning this subject.

By the time you read this Bulletin, our Jurassic cross-sections will be at the printers and available for purchase. A flyer announcing the completion of these nine sections is being distributed at this time. Credit is due to many for this project, but I would like to single out Buddy Twiner's monumental contribution to the success of these sections.

To those of you who have agreed to work on the various standing committees, I want to thank you for your cooperation. These committees and the chairman are as follows:

A. STANDING COMMITTEES

AAPG Membership Stew Welch & J. B. Goldman, Jr.
Entertainment T. C. Rader
Nomenclature Jim Bollman
Program Buddy Twiner
Projection Dale Robinson
Bulletin Editor Ed Luper
Advertising Paul Gribas
Publicity Jerry Zoble
Golf Verne Culbertson & Dean Kebert
Statistics Jim McMullen

B. SPECIAL COMMITTEES

AAPG Public Information Vern Culbertson
AAPG Data Bank Tom Williams

C. REPRESENTATIVES

AAPG Hosue of Delegates Stew Welch & J. B. Goldman, Jr.
AAPG Alternate John Richart
G.C.A.G.S. John Myers

**BULLETIN AND ADS TERMINATE
WITH 72-73 DUES YEAR**

The first issue of the Bulletin is being sent to all members of the Society who paid 1972-73 dues. If you have not paid the ten dollars for your 1973-74 dues by now - you are in arrears. September is the end of the grace period for receiving the Bulletin. Starting with the October issue the Bulletin will be mailed only to those listed on the 1973-74 membership roster.

The Society's advertisers are advised that last year's ads for the News Bulletin also expire with this edition. The next Bulletin will carry only those ads paid for by printing time in mid-September.

We wish to thank last year's sponsors of the News Bulletin. With out their help we would not be able to print it. In turn, let's show our thanks by calling a News Bulletin Sponsor when we have need of a service, and tell them where you read their ad, it helps.

We would like to invite other sponsors to place an ad in our bulletin. The rates are as follows:

\$25.00 for 1/2" x 3 3/4"
\$50.00 for 1" x 3 3/4"

Contact Paul Gribas Day
507 Standard Life Bldg.
Jackson, MS 39201
355-8305

**EXCERPTS FROM CONSTITUTION
REGARDING SPECIAL ELECTIONS**

"A special election shall be held at the next meeting subsequent to the permanent vacancy of any office excepting the president. Prior written notice to the membership will be given regarding the special election. The Board of Directors shall appoint a nominating committee. . . . who shall select two or more candidates for the office to be filled nominations may also be made from the floor nomination and election of officers shall be held at the same meeting of the society. Voting shall be conducted by secret ballots.

CANDIDATES FOR FIRST VICE—PRESIDENT

Shall assume the office of the President in case of a vacancy from any cause in that office, and shall assume the duties of the President in case of the absence or disability of the latter. He shall be at the disposal of the President for any duty necessary to the proper functioning of the Society.



Philip R. Reeves

Education: B.A. 1957 Louisiana Tech
 Employment: 1957-61 Hycalog
 1961-67 Independent
 1967- Cities Service
 Societies: MGS
 AAPG



Joe C. Bradley

Education: B.S. 1949 LSU
 Employment: 1949-51 Union Producing Co.
 1951-68 Southwest Gas
 Producing Co.
 Eason Oil Co.
 Societies: 1973-
 MGS
 AAPG

ELECTION TO BE HELD AT OCTOBER MEETING

PROGRESS

Mississippi Completions — April, May, June, July, 1974

Exploratory	Oil	Gas	Dry
Eocene	0	0	42
UK	1	0	16
LK	0	1	3
Jurassic	2	0	14
Paleozoic	0	1	9

Development	Oil	Gas	Dry
Eocene	9	1	8
UK	8	0	7
LK	3	1	2
Jurassic	7	0	4
Paleozoic	0	5	2

Barnett Field

Skelly No. 1, Matt Eddins
 Sec. 32-2N-14E Clarke Co.
 IP/F (13,316-330 + 13,338-362)
 Upper Smackover
 354 BOPD + 212,000 CFGPD
 18/64" ch. TP 360
 G.O.R. 600/1
 Grav. 38⁰

JGS 1974-75 OFFICERS

Next officers for the Jackson Geophysical Society are as follows:

President: John Shastid, Union Oil
 Vice-President: Will Harper, Consultant
 Secretary-Treasurer: Ray Phillips, Geophysical Field Survey

New Field Discoveries

Hurricane Lake Craft No. 1 Laird
 Sec. 11-6N-6E Lincoln Co.
 IP/F (10626-630) Lower Tuscaloosa
 215 BOPD + 117 BSW + 216,000
 CFGPD on 24/64" ch, TP 100,
 Grav. 39⁰

S. Summerland Getty No. 1 George Easterling
 Sec. 10-9N-14W Jones Co.
 IP/F (18581-640) Haynesville-Buckner
 984 BOPD + 1,604,000 CFGPD
 No Water, on 16/64" ch.
 TP 2530, Grav. 52⁰

Tylertown Field Fla. Gas No. 1 Laird-Owens
 Sec. 35-2N-11E Walthall Co.
 IP/F (12,858-866) Paluxy
 5,300,000 CFGPD
 1/4" ch, T.P. 3756

GEOLOGICAL DISCUSSION GROUP

The Geological Discussion Group will hold its regular monthly meeting on August 23, 1974, in the Smackover Room of the Petroleum Club at 12:00 Noon.

Mr. Harold Karges, Consultant, will lead the discussion on the subject of "Shallow Salt Domes of Mississippi".

Everyone is invited. No advance reservations are necessary. The future meeting dates and topics are as follows:

- Sept. 13 Wyatt Craft, Independent
 Lower Tuscaloosa Exploration
- Oct. 11 John McLean, Shell Oil Co.
 Drilling, production, and completion techniques in Thomasville & Piney Woods Fields, Rankin Co., Mississippi

PERSONAL NEWS

Dale Reese, Florida Gas Exploration has accepted a job with Badger Oil Co., in Dallas, Texas.

Lester Aultman has accepted a position with Pruett and Hughes, Jackson, Mississippi.

John T. Paxton, Lone Star, has been transferred to Houston, Texas.

Murphy Walker has returned to Corpus Christi, Texas.

We regret loosing Gulf personnel and wish them well in their new locations.

MISSISSIPPI GEOLOGICAL SURVEY RELEASES CROSS SECTION

The Mississippi Geological Survey announces the publication of a geological cross section from Tishomingo County to Tunica County. The cross section was constructed by Alvin R. Bicker, Jr. It is printed in six colors and demonstrates the structural configuration and stratigraphy of sediments along the line of traverse. Geophysical data was used to supplement control. Lithologic logs and electrical logs were utilized in the construction of this section.

The cross section illustrates various structural features in Mississippi. The correlation of surface outcrops into the subsurface is well illustrated. Surface topography and physiographic provinces are shown.

The cross section is produced on a horizontal scale of one inch equal to four miles. The vertical exaggeration is ten times the horizontal. A true scale section is included. Dimensions of the printed section are two feet by six feet.

The cross section sells for \$6.00, plus 50 cents postage and handling charges and can be ordered from the:

Mississippi Geological Survey
P. O. Box 4915
Jackson, Mississippi 39216

PETROLEUM AUXILIARY

Officers of the Petroleum Auxiliary for the 1974-75 term will be hostesses for a membership coffee on Tuesday, September 17, 1974 from 10:00 a.m. until 12:00 noon, in the home of Mrs. Marvin Oxley, 1432 Woodside Drive, Jackson.

Wives of members of the Mississippi Geological Society, Mississippi Landman's Association, Jackson Geophysical Society, or A.I.M.E. are eligible for membership and invited to attend the coffee.

		956-6523
	Mrs. Marvin Oxley	956-6446
	Mrs. Ron Ries	366-4514
Treasurer:	Mrs. Prentis Boatner	956-5438
Reporter:	Mrs. Dick Mason III	982-2443

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Jackson, Mississippi 39201

UPCOMING MEETINGS

On October 1, 1974, Merrill W. Haas, Vice-President for Exploration and President of the AAPG will address the Society. The meeting will be held at a location to be determined later with the social hour starting at 5:30 and the dinner at 6:30. More detailed information regarding Mr. Haas' visit will be furnished.

In November, Phil Brown with the U.S.G.S. at Raleigh, N.C. will present a paper on the correlation of the Mesozoic of Georgia and the East Coast.

JOKES

A man about to be electrocuted phoned his lawyer from the death chamber. "They are about to put me in the electric chair," He said. "You are my lawyer -- What do I do now?" The lawyer answered helpfully, "Don't sit down."

A Sultan annoyed with his Harem thought of a way he could scare'm. He caught a small mouse which he freed in the house, thus starting the first Harem-Scarem.

Two professors found an ancient skull and began an argument as to whether it had belonged to a man or a woman.

"I'm absolutely positive it's a woman's skull," declared the professor who won the argument, "Because the lower jaws are worn out."

"I'll have to have a raise in salary; three other companies are after me."

"Who are they?"

"The Phone Company, The Gas Company and The Light Company."

Paratroop Instructor: "All you have to do is jump, count to ten, pull your ripcord, and your parachute will open."

G.I.: "What happens if I forget to pull the cord?"

Instructor: "That's what we call jumping to a conclusion."



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Jackson, Mississippi	Phone 948-5591
THOMAS H. CLEMENTS Consulting Geophysicist	
903 Standard Life Bldg.	Jackson, Mississippi 39201
Phone 601/355-8724	
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103 E. Pearl Street	Jackson, Mississippi
355-4751	
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214 — 361-8467	
<i>Claude Hammill 'ad</i>	
<i>deleted</i>	
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P. O. Box 16039 — Jackson, Miss.	354-3642
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L. E. WALTER, JR. Consulting Geologist 1402 Standard Life Building Jackson, Mississippi 39201		Office 948-5169 Residence 982-4293
H. E. KARGES Consulting Geologist 1812 Capital Towers Phone 352-0972		P. O. Box 1635 Jackson, Miss. 39205
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SECAN OIL COMPANY Natchez, Miss. 445-5634 New Orleans, La. 529-1255 P. O. Box 1246 - Natchez, Miss.		Vidalia, La. 366-5846
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DON F. HUGUS, JR. 554 First National Bank Bldg. Jackson, Mississippi 39201		
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ATWATER, COWAN, CARTER MILLER & HEFFNER Geological and Petroleum Consultants 424 Whitney Bank Bldg. New Orleans, La. 70130 581-6527		
ROBERT R. JACOBS Petroleum Geologist P. O. Box 16263 Jackson, Mississippi 39206		362-4846
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WADE FORTENBERY Geologist P. O. Box 1183 - Natchez, Miss. Office: Hwy 61 South Bus. 442-6011 Res. 442-3250	

MISSISSIPPI GEOLOGICAL SOCIETY

P. O. Box 422

Jackson, Mississippi 39205



Luper, Ed
Box 4915
Jackson, Miss. 39216

WHY DON'T THEY LISTEN?

REMARKS BY

MERRILL W. HAAS

PRESIDENT

AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS

BEFORE THE

MISSISSIPPI GEOLOGICAL SOCIETY

JACKSON, MISSISSIPPI

OCTOBER 1, 1974

IT IS A REAL PLEASURE TO BE HERE TODAY. AMONG THE FRINGE BENEFITS THAT GO WITH SERVING AS PRESIDENT OF OUR ASSOCIATION, THE MOST ENJOYABLE IS THE OPPORTUNITY IT GIVES ONE TO VISIT SO MANY DIFFERENT PARTS OF THE COUNTRY AND TO GET TOGETHER WITH SO MANY OF ONE'S FELLOW GEOLOGISTS. AND IT IS ALWAYS ESPECIALLY GRATIFYING TO MEET WITH A GROUP SUCH AS YOURS WHICH IS SO VITALLY INVOLVED IN THE DAY-TO-DAY EFFORT TO AUGMENT THIS NATION'S ENERGY RESERVES.

OVER THE LAST YEAR OR SO, I THINK YOU'LL AGREE, THIS EFFORT HAS COME UNDER MUCH CLOSER SCRUTINY THAN EVERY BEFORE. ON TELEVISION, IN THE PRINT MEDIA, IN GOVERNMENTAL FORUMS, AND ON PLATFORMS ALL ACROSS THE COUNTRY, VARIOUS FUNDAMENTAL CHANGES IN THE NATION'S ENERGY ENVIRONMENT--IN THE DEGREE OF OUR DEPENDENCE ON FOREIGN SUPPLIES, FOR EXAMPLE, AND IN THE COST OF ENERGY--HAVE EMERGED AS TOPICS OF PRIME IMPORTANCE AND INTEREST. THE ROLE OF PETROLEUM IN THIS NEW ENVIRONMENT HAS COME IN FOR A SPECIAL AMOUNT OF ATTENTION, MUCH OF IT POORLY INFORMED. YOU COULD ALMOST SAY, ALONG THE LINES OF WINSTON CHURCHILL, THAT RARELY HAS SO MUCH BEEN SAID BY SO MANY, WITH--UNFORTUNATELY--SO LITTLE REAL IMPACT ON PUBLIC UNDERSTANDING.

THIS FAILURE OF UNDERSTANDING CAN BE SEEN IN THE EXTENT TO WHICH CONFUSION AND SKEPTICISM STILL EXIST WITH RESPECT TO OUR ENERGY PROBLEMS. SEVERAL MONTHS AGO, FOR EXAMPLE, BUSINESS WEEK REPORTED THAT AN OPINION SURVEY SHOWED THAT 62 PERCENT OF THE PUBLIC BELIEVED THAT OIL COMPANIES HAD HELPED BRING ON OUR ENERGY

SHORTAGE BY DELIBERATELY HOLDING BACK SUPPLIES. THOSE OF US IN THE PETROLEUM INDUSTRY HAVE ALSO BEEN UNFAIRLY ACCUSED OF FAILING TO COMPETE, OF DOCTORING OUR STATISTICS, OF INVESTING TOO MUCH MONEY ABROAD AND NEGLECTING DOMESTIC OPERATIONS, AND OF MAKING WINDFALL PROFITS DURING A TIME OF NATIONAL DISTRESS.

NONE OF THIS, OF COURSE, IS TOO SURPRISING. PEOPLE LIKE TO PERSONALIZE THEIR CONCERNS. BEING ANGRY WITH THE OIL COMPANIES IS MUCH MORE SATISFYING THAN BEING UPSET AT SUPPLY-AND-DEMAND ECONOMICS OR AT POLITICAL REALITIES OR AT THE WAY NATURE DOLES OUT HER RESOURCES. WHAT IS SO DANGEROUS ABOUT THIS SITUATION IS THAT THESE EXERCISES IN SCAPEGOATING COULD LEAD TO PUNITIVE AND CRIPPLING ACTIONS AGAINST AN INDUSTRY THAT HAS SERVED THE NATION LONG AND WELL. THEY ALSO DIVERT ATTENTION FROM THE REAL CAUSES OF OUR ENERGY DIFFICULTIES AND FRITTER AWAY VALUABLE TIME.

ONE OF THE MORE PERSISTENT SIGNS OF THE PUBLIC'S DISSATISFACTION HAS BEEN THE BITTER COMPLAINT: "WHY DIDN'T SOMEONE TELL US WE WERE FACING AN ENERGY SHORTAGE?" TO PEOPLE WHO HAD GROWN ACCUSTOMED TO TAKING ENERGY FOR GRANTED, THE REALIZATION THAT OUR ENERGY SUPPLIES WERE NOT UNLIMITED CAME AS A SEVERE SHOCK. "WHY DIDN'T SOMEONE WARN US," THEY NOW WANT TO KNOW. THE ANSWER IS THAT SOMEONE DID. UNTIL RECENTLY, HOWEVER, THE PUBLIC WAS GENERALLY UNINTERESTED IN ENERGY SUPPLY MATTERS. AS A RESULT, WHEN THE WARNINGS CAME, NOT MANY PEOPLE WERE LISTENING.

SHAKESPEARE, IN ONE OF HIS PLAYS (KING HENRY IV), SPEAKS OF "THE DISEASE OF NOT LISTENING." IN THE CASE OF ENERGY, THE RECORD

NOW SHOWS, THIS DISEASE HAS BEEN ALMOST EPIDEMIC IN NATURE. FOR YEARS, THOSE OF US IN THE PETROLEUM INDUSTRY--TOGETHER WITH A FEW ISOLATED VOICES IN GOVERNMENT--DID OUR UTMOST TO ALERT THE PUBLIC TO OUR COUNTRY'S STEADY DRIFT TOWARD A SERIOUS ENERGY SHORTAGE, TIME AND AGAIN WE URGED REMEDIAL ACTION. TIME AND AGAIN WE WARNED OF THE INEVITABLE CONSEQUENCES. TIME AND AGAIN OUR WARNINGS FELL MOSTLY ON DEAF EARS.

WHY WEREN'T THEY LISTENING, FOR EXAMPLE, WHEN THE PALEY COMMISSION SOUNDED THIS ALARM? "IN AREA AFTER AREA," SAID THE PALEY COMMISSION, "WE ENCOUNTER SOARING DEMANDS, SHRINKING RESOURCES, THE CONSTANT PRESSURE TOWARD RISING REAL COSTS, (AND) THE STRONG POSSIBILITY OF AN ARREST OR DECLINE IN THE STANDARD OF LIVING WE CHERISH AND HOPE TO SHARE. AS A NATION, WE ARE THREATENED, BUT (WE ARE) NOT ALERT." THAT WAS IN JUNE OF 1952.

WHY DIDN'T THEY LISTEN WHEN HINES H. BAKER, AS PRESIDENT OF THE OLD HUMBLE OIL & REFINING COMPANY, NOW EXXON, WARNED ABOUT THE FOLLY OF IMPOSING ARTIFICIALLY LOW PRICES ON A PREMIUM PRODUCT LIKE NATURAL GAS? ABOUT SELLING SIRLOIN, IN OTHER WORDS, AT HAMBURGER PRICES? THE END RESULT, HE POINTED OUT, WOULD BE TO UNDERMINE INCENTIVES TO EXPLORE FOR AND DEVELOP NEW RESERVES. "WITH DEMAND INCREASING AND THE RATE OF DISCOVERY DECREASING," HE SAID, "AFTER A TIME A DEFINITE SHORTAGE OF GAS OCCURS THUS THE PRIMARY INTEREST OF THE CONSUMER IS DEFEATED." THAT WAS IN 1954.

WHY DIDN'T THEY LISTEN WHEN MIKE HALBOUTY, A FORMER PRESIDENT OF OUR ASSOCIATION, TICKED OFF THE MANY SIGNS OF AN APPROACHING

ENERGY PROBLEM BEFORE AN AUDIENCE IN LOS ANGELES? "I CAN SAFELY PREDICT," MIKE SAID WITH ALL HIS USUAL VIGOR, "THAT BETWEEN NOW AND 1975 WE WILL HAVE AN ENERGY CRISIS IN THIS COUNTRY. THEN THE PEOPLE WILL SAY: 'THE INDUSTRY IS TO BLAME--WHY WEREN'T WE TOLD?' WELL, I'M TELLING THEM NOW." THAT WAS IN 1960, NEARLY 15 YEARS AGO.

WHY DIDN'T THEY LISTEN WHEN SCORES OF OTHER SPOKESMEN FROM OUR INDUSTRY, EQUALLY ALERT TO THE GROWING RESTRAINTS ON ENERGY DEVELOPMENT, REITERATED SUCH WARNINGS THROUGHOUT THE DECADE OF THE '60s?

THE QUESTION IS A RHETORICAL ONE, OF COURSE. IT IS NOT EASY TO FATHOM THE MOTIVES AND THOUGHTS OF THOSE WHOSE AUTOMATIC RESPONSE TO THE INDUSTRY'S ASSESSMENTS OF OUR ENERGY SITUATION AND OUR ENERGY POLICY NEEDS WAS TO DISMISS THEM AS SELF-SERVING. THE FACT IS, HOWEVER, THAT THESE VIEWS WENT LARGELY UNHEEDED BY TOO MANY PEOPLE IN TOO MANY IMPORTANT SEGMENTS OF OUR SOCIETY: IN GOVERNMENT, FOR INSTANCE, IN THE COMMUNICATIONS MEDIA, IN ACADEMIA, AND EVEN ON OCCASION IN THE WORLD OF BUSINESS.

AND WHAT ABOUT TODAY? IT IS ALSO A FACT THAT TODAY, DESPITE THE EVENTS OF THE PAST YEAR, THE DISEASE OF NOT LISTENING--AS SHAKESPEARE CALLED IT--IS STILL FAR FROM BEING ERADICATED. LET'S LOOK AT SOME CASES IN POINT.

ONE THAT COMES READILY TO MIND INVOLVES THE BODY POLITIC. THE APPROACH OF MANY POLITICIANS TO THE NATION'S ENERGY PROBLEM IS REMINISCENT OF THE SAYING THAT WAS BANDIED AROUND WASHINGTON

AFTER THE BAY OF PIGS FIASCO. "AS ALWAYS," IT WENT, "VICTORY FINDS A HUNDRED FATHERS, BUT DEFEAT IS AN ORPHAN." TODAY'S ENERGY SHORTAGE CLEARLY REPRESENTS A DEFEAT FOR OUR COUNTRY'S PAST ENERGY POLICIES. THE PROBLEM IS IN NO SENSE AN ORPHAN, HOWEVER, NOR CAN ITS PARENTAGE BE ATTRIBUTED TO THE PETROLEUM INDUSTRY. INSTEAD, IT IS THE OFFSPRING OF A COMBINATION OF EXTERNAL FACTORS AND EVENTS OVER WHICH, AS YOU WELL KNOW, OUR INDUSTRY HAS HAD NO CONTROL.

YET WE SEE IN CONGRESS TODAY LAWS BEING PROPOSED WHICH WOULD ONLY SERVE TO PERPETUATE PAST MISTAKES AND CREATE NEW ONES--LAWS WHICH WOULD BE COMPARABLE, AS SOMEONE HAS PUT IT, TO REARRANGING THE DECK CHAIRS ON THE TITANIC. SOME OF THESE PROPOSED LAWS, IF ENACTED, COULD HAVE THE EFFECT OF PERMANENTLY CRIPPLING THE PETROLEUM INDUSTRY'S ABILITY TO MEET FUTURE ENERGY NEEDS. OF EVEN BROADER SIGNIFICANCE, MANY OF THESE PROPOSALS REPRESENT AN APPROACH WHICH COULD BE USED AGAINST ANY INDUSTRY WHEN AND IF IT BECOMES VULNERABLE DUE TO A BARRAGE OF PUBLIC CRITICISM.

SENATOR PAUL FANNIN OF ARIZONA, IN A TALK TO A GROUP OF BUSINESSMEN EARLIER THIS YEAR, HIT THE NAIL ON THE HEAD. "IF ONLY A SMALL FRACTION OF THE LEGISLATION INTRODUCED IN THIS CONGRESS TO PUNISH THE ENERGY INDUSTRY IS ENACTED INTO LAW," HE SAID, "IT WILL NOT ONLY HAVE AN IMMENSE DIRECT ADVERSE IMPACT ON ENERGY PRODUCERS--AND IN TURN THE SUPPLY OF ENERGY--BUT IT WILL ESTABLISH PRECEDENTS FOR THE EMASCULATION OF YOUR OWN INDUSTRIES."

HE THEN CITED A FEW EXAMPLES FROM THE AVALANCHE OF ENERGY-RELATED BILLS WHICH HAVE INUNDATED THE PRESENT 93RD CONGRESS.

"AT LEAST 35 BILLS HAVE BEEN INTRODUCED TO LIMIT OR ABOLISH THE DEPLETION ALLOWANCE. MORE THAN 30 PIECES OF LEGISLATION CALL FOR THE IMPOSITION OF PRICE CONTROLS. ANOTHER PROPOSED LAW IS AIMED AT PREVENTING OIL COMPANIES FROM CLOSING FRANCHISED SERVICE STATIONS, NO MATTER HOW UNECONOMICAL THE OPERATION OF A PARTICULAR STATION MIGHT BE. IN THIS SAME BILL IS A SECTION WHICH WOULD REQUIRE, AT GOVERNMENT REQUEST, THE WHOLESAL DISCLOSURE OF PROPRIETARY INFORMATION."

THE DEPARTMENT OF INTERIOR, AS YOU PROBABLY KNOW, IS ALSO PUSHING A SIMILAR MEASURE WHICH WOULD REQUIRE THE DISCLOSURE OF CONFIDENTIAL GEOLOGICAL AND GEOPHYSICAL INFORMATION ON FEDERAL OFFSHORE LEASES. THE OBJECTIVES, ACCORDING TO INTERIOR, WOULD BE TO SERVE THE PUBLIC INTEREST, CONSERVE NATURAL RESOURCES, ENCOURAGE COMPETITIVE BIDDING, AND ASSURE THE RECEIPT OF A FAIR MARKET VALUE FOR FEDERAL RESOURCES. ON BEHALF OF OUR ASSOCIATION, I TESTIFIED IN OPPOSITION TO THIS PROPOSAL AT A HEARING HELD LAST JULY IN WASHINGTON.

OUR FREE ENTERPRISE SYSTEM, I POINTED OUT, HAS OPERATED IN A MANNER THAT HAS SET WORLDWIDE STANDARDS FOR EFFICIENT AND EFFECTIVE EXPLORATION. UNDER THIS SYSTEM, PRIVATE INTERESTS DEVELOP TECHNOLOGY AND INFORMATION WHICH IS NOT FREELY DISCLOSED BUT IS RETAINED FOR THEIR OWN PROPRIETARY USE. THIS SYSTEM, I SAID, HAS SERVED THE PUBLIC INTEREST WELL. THE DOMINANT POSITION OF THE U. S. PETROLEUM INDUSTRY IN FOREIGN EXPLORATION IS LARGELY DUE TO THE CONTINUOUSLY IMPROVING TECHNOLOGY DEVELOPED DOMESTICALLY. THE MOTIVATION TO

CONTINUE THIS TYPE OF TECHNOLOGICAL IMPROVEMENT SHOULD NOT BE DESTROYED BY DISCLOSURE RULES THAT GIVE EQUAL ACCESS TO OTHERS OF PRIVATELY DEVELOPED INFORMATION.

NEVERTHELESS, THESE AND SIMILAR IDEAS OF DUBIOUS VALUE CONTINUE TO EMANATE FROM WASHINGTON. THE SHUFFLING OF DECK CHAIRS STILL GOES ON: PROPOSALS LIKE THE OIL AND GAS ENERGY TAX ACT WHICH WOULD ELIMINATE THE DEPLETION ALLOWANCE FOR PETROLEUM, IMPOSE A "WINDFALL PROFITS" TAX ON THE PETROLEUM INDUSTRY, AND DENY FOREIGN TAX CREDITS ON INCOME EARNED ABROAD FROM PETROLEUM EXTRACTION. PROPOSALS LIKE THE ONE THAT WOULD REQUIRE THE 15 OR 20 LARGEST INTEGRATED OIL COMPANIES TO OBTAIN FEDERAL CHARTERS IF THEY WISH TO EXPLORE AND DEVELOP OUTER CONTINENTAL SHELF LEASES OR OTHER FEDERAL LANDS. PROPOSALS LIKE THE ONE THAT WOULD SET UP A GOVERNMENT OIL COMPANY AND PUT THE U. S. GOVERNMENT INTO DIRECT COMPETITION WITH PRIVATE OIL COMPANIES.

THE PATTERN OF ATTACK IS CLEARLY EVIDENT: BREAK UP THE LARGE COMPANIES IN THE INDUSTRY. RAISE TAXES WHILE REDUCING PROFITS. SUBJECT THE INDUSTRY TO VARIOUS FORMS OF BUREAUCRATIC CONTROLS WHICH HAMPER ITS EFFICIENCY AND SHACKLE THE COMPETITIVE PROCESS. AND AS A FINAL STROKE, ARRANGE THINGS SO THAT THE GOVERNMENT'S OWN COMPANY CAN DOMINATE THE INDUSTRY. TAKEN AS A WHOLE, THIS REPRESENTS A PATTERN OF CONTROL AND RESTRICTIONS WHICH COULD CRIPPLE THE BUSINESS CAPABILITIES OF THE PETROLEUM OR ANY OTHER INDUSTRY TO WHICH IT IS APPLIED.

SENATOR JAMES BUCKLEY OF NEW YORK HAS DESCRIBED THE PUNITIVE CLIMATE IN WASHINGTON IN THESE TERMS: "NOT ONLY ARE WE IN DANGER,"

HE SAID, "OF ESTABLISHING A PATTERN THAT CAN CRUCIFY THE OIL AND GAS INDUSTRY, BUT IN THE PROCESS WE WILL ESTABLISH A PATTERN THAT INEVITABLY WILL BE APPLIED NEXT TIME AROUND TO ALUMINUM, THE TIME AFTER THAT TO THE AUTOMOBILE INDUSTRY, OR (TO) ANY INDUSTRY THAT HAPPENS TO BE THE WHIPPING BOY OF THE TIME."

MILTON FRIEDMAN, THE ECONOMIST, HAS CALLED THE ORCHESTRATED ATTEMPT TO PILLORY THE PETROLEUM INDUSTRY "SIMPLY THE IRRATIONAL SEARCH FOR A DEVIL." TO THIS, I CAN ONLY ADD THAT IT IS HIGH TIME THAT THIS PARTICULAR DEVIL BE EXORCISED FROM THE PUBLIC MIND-- EXORCISED BY LISTENING TO THE VOICES OF MORE THAN A CENTURY OF SUCCESSFUL PETROLEUM EXPLORATION AND DEVELOPMENT AND TO THE INNER VOICE OF COMMON SENSE.

ANOTHER SEGMENT OF SOCIETY WHICH HAS SUFFERED FROM A SEVERE HEARING PROBLEM IS THAT OF THE NEWS MEDIA. THIS HAS BEEN ESPECIALLY EVIDENT IN THE CASE OF NETWORK TELEVISION, WHICH NOW PLAYS SUCH A PREDOMINANT ROLE IN SHAPING THE THINKING, ATTITUDES, AND EMOTIONS OF OUR PEOPLE. A KEY ELEMENT IN THE ATTACK ON OUR INDUSTRY HAS BEEN THE CALCULATED USE AND MANIPULATION OF TELEVISION AND THE OTHER NEWS MEDIA BY CRITICS OF THE BUSINESS SYSTEM. IN THE PROCESS, SEVERAL REALITIES ABOUT THE MEDIA HAVE BECOME APPARENT:

FIRST, THE NEWS MEDIA ARE WOEFULLY WEAK WITH RESPECT TO THEIR GENERAL KNOWLEDGE OF ECONOMICS, FINANCE, AND THE OVERALL WORKINGS OF THE AMERICAN BUSINESS SYSTEM. EVEN THOUGH ITS MEMBERS DERIVE THEIR LIVELIHOOD FROM THE SYSTEM, IN MANY CASES THEY HAVE A DEFINITE BIAS AGAINST PRIVATE ENTERPRISE.

SECOND, FEW MEMBERS OF THE MEDIA OUTSIDE THE OIL TRADE PRESS KNOW ANYTHING ABOUT THE OIL BUSINESS, ITS OPERATIONS, ITS ECONOMICS, AND ITS TECHNOLOGY.

THIRD, THIS LACK OF KNOWLEDGE ABOUT BUSINESS IN GENERAL AND ABOUT THE OIL INDUSTRY IN PARTICULAR IS COMPOUNDED BY THE INHERENT TENDENCY OF THE MEDIA TO SENSATIONALIZE RATHER THAN TO ANALYZE. THIS DESIRE FOR THE DRAMATIC HAS LED TO A WAY OF PRESENTING THE NEWS IN WHICH THE ACCUSATION, EVEN IF COMPLETELY UNSUPPORTED, IS GIVEN MORE EMPHASIS THAN ANY REFUTATION, NO MATTER HOW WELL DOCUMENTED.

IT HAS SEEMED THAT ANY CRITIC OF THE OIL BUSINESS, NO MATTER WHAT HIS BACKGROUND, EXPERIENCE, RESPONSIBILITIES, OR CREDENTIALS, HAS BEEN ABLE TO GET HIS VIEWS AIRED ALMOST AT WILL WHILE FOR THE MOST PART THE REPLIES TO THESE ACCUSATIONS HAVE RECEIVED LITTLE ATTENTION. THIS HAS BEEN ESPECIALLY TRUE OF NETWORK TELEVISION COVERAGE.

FOR EXAMPLE, HEARINGS WERE HELD LAST JANUARY ON THE FUEL PROBLEM BY THE SENATE PERMANENT SUBCOMMITTEE ON INVESTIGATIONS, CHAIRED BY SENATOR JACKSON. ALTHOUGH THE OIL COMPANIES WERE UNDER THE IMPRESSION THAT THIS WAS TO BE A FACT-FINDING SESSION ABOUT THE NATURE AND CAUSES OF THE ENERGY SUPPLY SITUATION, IT BECAME A POLITICAL SIDESHOW INSTEAD. THE NEWS COVERAGE OF THESE HEARINGS HEAVILY EMPHASIZED SENSATIONAL-- BUT UNSUPPORTED--ACCUSATIONS AGAINST THE MAJOR OIL COMPANIES BY SEVERAL SENATORS, SOME OF WHOM ARE KNOWN TO HAVE PRESIDENTIAL AMBITIONS.

THE OIL COMPANIES, YOU MAY RECALL, WERE ACCUSED OF CREATING THE ENERGY SHORTAGE, OF CONSPIRACY, OF MISLEADING THE GOVERNMENT, AND OF GOUGING THE CONSUMER. EVEN OUR LOYALTY TO THE COUNTRY WAS CALLED INTO QUESTION. THE REPLIES THAT INDUSTRY REPRESENTATIVES MADE TO THESE CHARGES RECEIVED ONLY A FRACTION OF THE COVERAGE ACCORDED TO OUR ACCUSERS. YET AT THE VERY END OF THE PROCEEDINGS, SENATOR JACKSON WAS MOVED TO SAY PUBLICLY THAT "THESE HEARINGS HAVE NOT TURNED UP ANY HARD EVIDENCE THAT THE MAJOR OIL COMPANIES DELIBERATELY CREATED THE CRISIS--EITHER IN PARALLEL OR IN CONCERT."

BUT THE DAMAGE HAD BEEN DONE.

ALL OF THESE THINGS BRING INTO SHARP FOCUS THE QUESTION OF WHAT CAN WE DO. WHAT CAN WE AS GEOLOGISTS, FOR EXAMPLE, DO TO HELP MAKE PEOPLE LISTEN?

AT FIRST GLANCE, PERHAPS, IT MAY SEEM THAT THESE ARE PROBLEMS ABOUT WHICH THOSE OF US IN THE AAPG CAN DO VERY LITTLE. AND PERHAPS WE CAN'T--DIRECTLY, THAT IS. ON THE OTHER HAND, HOWEVER, WE CAN MAKE A REAL CONTRIBUTION TOWARD CORRECTING THEM--INDIRECTLY IF NOT DIRECTLY--BY MISSING NO OPPORTUNITY TO IMPROVE THE PUBLIC'S UNDERSTANDING OF OUR INDUSTRY'S ACTIVITIES AND BY TRYING TO INSTILL GREATER PUBLIC CONFIDENCE IN WHAT WE ARE ENDEAVORING TO DO.

EVERY PETROLEUM GEOLOGIST HAS A REAL STAKE IN THE FUTURE OF HIS INDUSTRY. HE SHOULD BE AMONG THE FIRST TO BE CONCERNED ABOUT ITS PROBLEMS AND DIFFICULTIES. AND HE IS ESPECIALLY WELL EQUIPPED TO PROVIDE THE KIND OF SOLID, FACTUAL INFORMATION THAT CAN DISPEL MYTHS

AND TAKE THE STING OUT OF MISREPRESENTATIONS. HE HAS THE EXPERTISE AND KNOWLEDGE THAT CAN HELP BRIDGE THE GAP BETWEEN THE PUBLIC AND OUR INDUSTRY.

FURTHERMORE, BY EDUCATION, BY BACKGROUND, AND BY EXPERIENCE, THE GEOLOGIST OFTEN HAS THE QUALITIES OF WHAT IS NOWADAYS KNOWN AS A THOUGHT LEADER--A RESPECTED MEMBER OF HIS COMMUNITY TO WHOM PEOPLE TEND TO LISTEN. HE IS USUALLY ARTICULATE AND PERSUASIVE IN DISCUSSING THE SUBJECT HE KNOWS BEST. AND HE IS OFTEN IN AN EXCELLENT POSITION TO COMMUNICATE WITH PEOPLE ON A FACE-TO-FACE BASIS AND TO DO IT IN A CONVINCING MANNER.

GENE MORRELL, WHILE SERVING AS A DIRECTOR OF THE U. S. OFFICE OF OIL AND GAS SEVERAL YEARS AGO, TOLD A GATHERING OF GEOLOGISTS THAT IT WAS HIGH TIME FOR PROFESSIONAL PEOPLE TO BECOME ACTIVISTS WITH RESPECT TO IMPROVING THE BUSINESS CLIMATE FOR THEIR INDUSTRIES. FOR IN THE FINAL ANALYSIS, HE SAID, THE POLICIES AFFECTING THE NATION'S ECONOMY WILL BE DETERMINED BY PUBLIC ATTITUDES, AS EXPRESSED EITHER IN THE MARKET PLACE OR AT THE POLLS.

"WHETHER WELL-INFORMED OR MISINFORMED," HE SAID, "THEY (THE PUBLIC) WILL MAKE THEIR DECISIONS. IT IS OUR RESPONSIBILITY TO ASSURE THAT (THESE) DECISIONS ARE BASED ON SOLID, ACCURATE DATA."

ARE WE IN THE AAPG DOING AS GOOD A JOB ALONG THESE LINES AS WE COULD BE DOING? I DOUBT THAT WE ARE. IT IS TIME, I THINK, THAT ALL OF US--BOTH AS AN ASSOCIATION AND AS INDIVIDUALS--PUT OUR WEIGHT BEHIND THE EFFORT TO GET PEOPLE TO LISTEN TO OUR STORY. FOR IT IS

ONLY BY BRINGING THE DISEASE OF NOT LISTENING UNDER CONTROL THAT WE CAN BE ASSURED OF GETTING PUBLIC CONSENT TO CARRY ON OUR BUSINESS. WE NEED THAT CONSENT, BUT ALL TOO OFTEN THE PUBLIC IS NOT PRESENTLY CONSENTING.

OUR ASSOCIATION, WITH MORE THAN 16,000 MEMBERS, CAN BE PARTICULARLY EFFECTIVE IN COMMUNICATING WITH PUBLIC OFFICIALS. WE ALREADY HAVE A CONSIDERABLE AMOUNT OF CREDIBILITY WITH MANY IMPORTANT GOVERNMENT AGENCIES, AND WE ARE RECEIVING MORE AND MORE REQUESTS FROM THEM FOR DATA ABOUT VARIOUS FACETS OF OUR INDUSTRY. A NEW PROGRAM RECENTLY APPROVED BY OUR EXECUTIVE COMMITTEE--PROVIDING FOR THE ESTABLISHMENT OF A SPECIAL GROUP KNOWN AS THE STRATEGIC COMMITTEE ON PUBLIC AFFAIRS--SHOULD ENABLE US TO BE EVEN MORE RESPONSIVE TO SUCH REQUESTS.

THIS NEW COMMITTEE, UNDER THE CHAIRMANSHIP OF MIKE HALBOUTY, WILL HAVE DISTRICT CHAIRMEN WITH RESPONSIBILITY FOR THE PROGRAM IN THEIR RESPECTIVE STATES. THERE WILL ALSO BE TWO INDIVIDUALS IN EACH STATE WHO WILL SERVE UNDER THE DISTRICT CHAIRMAN AS DIRECT COMMUNICATORS. THE INITIAL THRUST OF THE PROGRAM WILL BE TO CEMENT BETTER COMMUNICATIONS WITH MEMBERS OF THE U. S. SENATE.

AT THE SAME TIME, WE CAN ALL BE DOING OUR PART AS INDIVIDUALS. THERE IS CONSIDERABLE EVIDENCE THAT PERSON-TO-PERSON COMMUNICATION HAS AN EVEN GREATER POWER TO PERSUADE THAN DOES THE MASS MEDIA. IN THE CASE OF THE MASS MEDIA, FOR EXAMPLE, PEOPLE HAVE UNLIMITED LEEWAY TO TUNE OUT OR PUT ASIDE ANYTHING WHICH DOESN'T HAPPEN TO MATCH THEIR BELIEFS OR THEIR PREJUDICES. IT IS VERY EASY TO SWITCH OFF ERIC

SEVEREID OR PLACE TIME MAGAZINE BACK IN ITS RACK. IN FACE-TO-FACE, OR ONE-ON-ONE COMMUNICATION, HOWEVER, WE USUALLY HAVE THE FULL ATTENTION OF THE PERSON WE ARE TALKING TO. WE CAN GET THEM TO LISTEN.

THIS KIND OF INDIVIDUAL CONTRIBUTION TO OUR INDUSTRY'S FUTURE CALLS FOR EXTRA EFFORT. IT CALLS FOR PUTTING IN EXTRA TIME TO LEARN MORE ABOUT THE PUBLIC AFFAIRS PROBLEMS WE CURRENTLY FACE. AND IT CALLS FOR PUTTING THAT KNOWLEDGE TO USE BY PASSING IT ALONG TO OTHERS.

A STUDY CARRIED OUT SEVERAL YEARS AGO AT THE UNIVERSITY OF MINNESOTA SHOWED THAT MANY BUSINESSMEN SPEND 40 PERCENT OR MORE OF THEIR TIME JUST LISTENING. BUT THE STUDY ALSO FOUND THAT THE AVERAGE PERSON DOES HIS LISTENING AT ONLY ABOUT A 25 PERCENT LEVEL OF EFFICIENCY. WE NEED TO COMPETE FOR MORE OF THE LISTENING TIME THAT PEOPLE HAVE AVAILABLE, AND WE NEED TO TRY TO HELP RAISE THE LEVEL OF LISTENING EFFICIENCY.

AS I PREVIOUSLY STATED, GEOLOGISTS HAVE THE EXPERTISE AND KNOWLEDGE THAT CAN HELP BRIDGE THE GAP BETWEEN THE PUBLIC AND OUR INDUSTRY. MAY I SUGGEST THAT YOUR SOCIETY INSTITUTE A PROGRAM OF CULTIVATING A RELATIONSHIP WITH YOUR LOCAL TV AND NEWS MEDIA. KEEP THEM FACTUALLY INFORMED ON THE ENERGY PROBLEM. REACT RAPIDLY TO MISREPRESENTATIONS ABOUT OUR INDUSTRY BY OTHERS. BE A SELF-APPOINTED TRUTH SQUADRON. ESTABLISH CREDIBILITY WITH THE LOCAL TV AND THE PRESS, AND CHALLENGE THEM TO SEEK YOUR RESPONSE TO PETROLEUM MATTERS.

WE FACE TREMENDOUS CHALLENGES TODAY IN THE PETROLEUM INDUSTRY. WE CAN CONTINUE TO HAVE A HEALTHY, VIGOROUS INDUSTRY IN THIS COUNTRY,

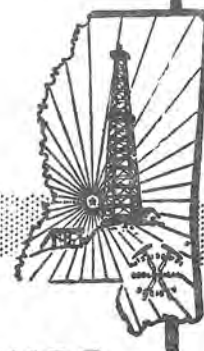
BUT WE MUST WORK AT IT. WE MUST WORK AT KEEPING THE PUBLIC INFORMED, AT KEEPING THE RECORD STRAIGHT, AND AT BROADENING THE NATION'S UNDERSTANDING OF OUR GOALS AND OPERATIONS.

WE MAY LOSE AN OCCASIONAL BATTLE, BUT BY PERFORMING WELL AND BY GETTING PEOPLE TO LISTEN, WE CAN, I AM CONFIDENT WIN THE WAR.

NEWS

BULLETIN

mississippi geological society



VOL. XXX No. 2 November, 1974

CRETACEOUS STRATIGRAPHY AND STRUCTURE TOPIC NOV. 12

U.S.G.S. RESEARCH GEOLOGIST TO SPEAK TO MGS

Mr. Philip M. Brown, Research Geologist with the U. S. Geological Survey, Water Resources Division, Raleigh, N. C. will speak to the Society on Tuesday, November 12. The Meeting will be held at the Petroleum Club atop the Capital Towers Building, 125 S. Congress Street in downtown Jackson. Free parking is furnished in the Capital Towers parking area provided your parking ticket is properly stamped. A social hour at 5:30 p.m. will precede the dinner at 6:30. The subject of Mr. Brown's talk will be "Regional Structural Framework and Cretaceous Stratigraphy of Subsurface Mesozoic Rocks in Georgia."

Mr. Brown received a B.S. degree from University of Alabama in 1952 and did graduate work at the University of Minnesota in 1953. His professional career has been with the Water Resources Division of the U. S. Geological Survey from 1953 to the present. He advanced from Staff Geologist to the rank of Research Geologist in the U.S.G.S. office located in Raleigh, N.C.

Mr. Brown's professional interests pertain to the subsurface stratigraphy and structure of the Atlantic Coastal Plain as applied to the delineation of permeability distribution and potential waste-storage reservoirs.

Recent publications of Mr. Brown are shown below:

U.S.G.S. Prof. Paper 796, "Structural and Stratigraphic Framework and Spatial Distribution of Permeability of the Atlantic Coastal Plain, North Carolina to New York by Brown, Miller and Swain.

U.S.G.S. Prof. Paper 881, "Geologic Evaluation of Waste Storage Potential in Selected Segments of the Mesozoic Aquifer System below the Zone of Fresh Water, North Carolina through New Jersey" by Brown and Reid.

MISSISSIPPI GEOLOGICAL SOCIETY CALENDAR

Nov. 12	Brown's talk MGS - Petroleum Club Social Hour 5:30 p.m. - Dinner 6:30 p.m.
Nov. 10-14	Society of Exploration Geophysicists Annual Meeting, Dallas Texas
Nov. 15	Geological Discussion Group Smackover Room - Petroleum Club
Nov. 18-20	Geological Society of America Annual Meeting, Miami Beach, Fla.
Dec. 6-7	Alabama Geological Society Field Trip Coosa Valley Deformed belt

For Reservation to the Nov. 12 meeting call T. C. Rader's office by noon Monday, Nov. 11, Phone 948-4128

A.A.P.G. NEWS

Two prominent geologists from the East Coast will head the American Association of Petroleum Geologists' slate of candidates for 1975-76. Robert E. King, Mamaroneck, N.Y., and John D. Moody, New York City, will run for the office of president-elect. The names of these and other candidates were released by Merrill W. Haas, current AAPG president.

King, with degrees from the University of Iowa and Yale, is currently a consultant and chairman of the board of Comoro Exploration, Ltd. King was born in Ann Arbor, Mich., and began his career as a geologist with Texaco. He has held positions with several oil companies, including American Overseas Petroleum, Ltd., where he served as chief exploration geologist from 1956-68.

Moody, recently retired as Mobil Oil's senior vice president for exploration and producing, is now a consultant. He is a native of Denver and holds degrees from Colorado School of Mines. Moody's early experience was with Gulf Oil Corp. in various geological and management positions. He served as manager of exploration for Plymouth Oil Co. for two years prior to joining Mobil in 1962.

Both candidates have had extensive domestic and foreign experience in petroleum exploration and have made significant contributions to the geologic literature.

The candidates for vice-president are successful consulting geologists from New Orleans. Frank C. Crawford, a native of Coushatta, La., holds degrees from Centenary College and LSU. He worked for Marathon Oil Co. from 1949 until 1966. Crawford now serves as general manager of Crawford Oil Co. Lee H. Meltzer was born in Chicago and graduated from the University of Chicago. He worked as a geologist with Union Producing from 1936 until leaving to establish his consulting practice in 1956.

Geologists from the Mid-Continent will run for a two-year term as secretary of the Association. Robey H. Clark, vice-president for exploration and production with Diamond Shamrock in Amarillo, will run against Herbert G. Davis, Oklahoma City independent and consulting geologist. Clark, a native of Mound, La., graduated from LSU and the University of Wisconsin. He worked for Mobil Oil from 1946 until leaving to join Diamond Shamrock in 1971. Davis, a native of Buffalo, N. Y., is a graduate of Oklahoma State and served in the U. S. Army Corps of Engineers and with Amoco prior to entering consulting work in Oklahoma City where he served for four years as vice-president and exploration manager of D-N-C Exploration Corp.

Running unopposed for a two-year term as editor of the AAPG is Dr. John W. Shelton, professor of geology at Oklahoma State University. Shelton was born in China Springs, Tex., and received a B. A. in mathematics from Baylor and M.S. and Ph.D. degrees in geology from the University of Illinois. He worked for Shell as a geologist from 1953 until 1963 when he joined the OSU faculty.

The election will be held by mail ballot to the membership in the spring of 1975. The AAPG is the world's largest geological organization, with more than 16,000 members in all fifty states and in eighty foreign countries.

MISSISSIPPI GEOLOGICAL SOCIETY

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David Ray Williamson	Asst. Editor	Miss. Geological Survey
Paul Gribas	Advertising Mgr.	Shenandoah Oil Co.
Jim McMullen	Statistics	Petroleum Information

Printed in Jackson, Mississippi

The appointment of John C. Marble to the staff of the Mississippi Geological Survey as a geologist was announced by William H. Moore, State Geologist. Marble, a native Jacksonian and 1969 graduate of Forest Hill High School, received his B.S. degree in geology from Mississippi State University. Marble is married to the former Rebecca Jane Schenck of McComb, Mississippi and is a member of the Forest Hill Methodist Church of Jackson.

Gerald L. Owens, formerly employed as a reservoir engineer with Core Labs, has accepted a position as a geologist with Tideway Oil Programs, Inc., Jackson. Owens is a graduate of Colorado State University.

Marvin L. Oxley formerly a consulting geologist, has been named exploration manager for Tideway Oil Programs, Inc., Jackson, Mississippi effective August 1, 1974.

Doyle Goodman, a geologist employed as sales engineer by Singer Lay Central Division of Jackson, has been promoted to manager.

John E. McCarty, a geologist with the Mississippi Geological Survey, has resigned effective November 1 to accept a position with Gulf Research and Development in Hammerville, Pennsylvania.

A.A.P.G. NEWS CONTINUED

Tulsa, Okla., August 22 - In his first "President's Page" message since becoming chief executive of the American Association of Petroleum Geologists in July, Merrill W. Haas of Houston announced formation of a special committee within the AAPG.

Writing to the membership through the AAPG Bulletin, Haas said, "Some of the members have urged the association to become active in professional affairs other than those pertaining to career development."

"These are troubled times for the petroleum industry . . . The energy crisis has created a situation in which unfounded charges and attacks are made against the industry. These accusations, either by design or because of lack of knowledge by persons in responsible positions, influence decisions of the day which ultimately have a profound effect on the nation. . .

"I am convinced that our mission is clear and that the association should become involved beyond our traditional programs and services to the membership. As a nonpartisan objective association, we must inform public officials of the facts so that political decisions will be made on a firm foundation."

The public information program, Haas said, will be administered by a "strategic committee on public affairs", approved and established by the association executive committee, with Michel T. Halbouty of Houston, a former president of AAPG, as chairman of the new committee.

Reporting to the general chairman will be district chairmen, having responsibility for several states. In addition, two members will be named for each state as "communicators", to conduct direct communication with each state's United States senators on problems affecting the industry and the public.

The plan also envisions an information subcommittee, gathering data pertinent to the geologists' knowledge of the industry for dissemination to the public.

PERSONAL NEWS

Dale Reese, formerly with Florida Gas Exploration has accepted a job with Bridger Petroleum Corporation, 1330 One Energy Square, Dallas, Texas 75206. Mr. Reese's new employer was erroneously reported in the last News Bulletin as Badger Oil Company.

Lee Peterson recently accepted a position with Cities Service Oil Company in Jackson, Mississippi. Lee, who received his M.S. from Arizona State and will receive his Ph.D. next year from Arizona State is employed as an exploration geologist.

Dick Robertson, formerly with Cities Service Oil Company in Jackson, has accepted a position with Barnwell Exploration in Shreveport, Louisiana.

REPORT ON 1974 GEOLOGICAL SOCIETY GOLF TOURNAMENT

The annual Mississippi Geological Society golf tournament was held September 6 at the Live Oaks Golf Club. Winning for the second time, Steve Dennis came in with a fine 74 to edge Verne Culbertson who had already finished with 75. Low net honors went to John Lacy with 71 and second low net went to Prentiss Boatner.

There was a turnout of 43 on a cloudy but cool day, and everyone agreed that the course and playing conditions could not have been better.

The society wishes to extend its appreciation to those who contributed so generously toward the cost of the tournament:

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 The Analysts (Frank Howson)
 Engineering Service
 Neely Blue Print & Supply Co.
 Schlumberger Well Services
 Dresser Atlas Company

Winners in the various categories were as follows:

Low gross	- Steve Dennis (74)
2nd low gross	- Verne Culbertson (75)
Low net	- John Lacy (71)
2nd low net	- Prentiss Boatner (72)
Low ball	- Allan Jackson, Charles Williams, Marvin Oxley, Howard Stower (70)
foursome	
Longest drive	- Jim Cummings
Least putts	- Bill Wagner (26)
Most birdies	- Charles Williams (4)
Closest to No. 7	- Rudy Ewing (7 feet)
Most pars	- Mike Pryor (11)
Most 3's	- Larry Tucker (5)
Most 4's	- Bob Neely (9)
Most 5's	- Ed Kendrick (9)
Most 6's	- W. Reese Smith (7)
Most improved	- Jerry Kinsley (16 strokes better than 1973)
High gross	- Jim May (145!)

For hitting the green on No. 7 with the tee shot, a Titleist golf ball was awarded to: Herb Ferber, Charles Williams, Rudy Ewing, Dave Cate, Charles Barton.

SCENES FROM FALL GOLF TOURNAMENT AND BARBEQUE



Standing, left to right: R. C. Howard, V. Culbertson, J. McElroy, P. Boatner, C. Barton, M. Goodger, R. Ewing, M. Pyror, D. Cate. Kneeling, left to right: V. Watkins, J. Zoble, J. Lacy.



George Isbell, Dee Layman, Billy Powell, Riley Hagan



Bill Wagner, Fred Lewis, Herb Ferber, G. Kinsley



Emil Monsour, Bob Neely, Jeff Tucker, Bob Womack.



Terry Tigrett, Bob Jacobs, Marcial Forester, Ed Kendrick.



John Lacy, Jim White (Treas.), Sara Childress (Sec.).



Doug Harper, "Daddy-O" Phillips, T. C. Rader.



Stewart Welch



James H. May

**MISSISSIPPI GEOLOGICAL SURVEY
RELEASES TINSLEY BULLETIN**

On August 29, 1939, Union Producing Company completed its G. C. Woodruff No. 1 as the discovery well of Tinsley Field in Yazoo County. This field became the largest oil field east of the Mississippi River and has produced almost 200 million barrels of oil.

Bulletin 119 of the Mississippi Geological Survey entitled, "Tinsley Field 1939-1974, A Commemorative Bulletin," contains 56 pages, 5 illustrations, and 3 plates. The bulletin traces Tinsley from the discovery of the Tinsley structure during a routine geological survey by Frederic F. Mellen, a Mississippi Geological Survey employee now a consulting geologist, through the drilling of the discovery well. It contains 33 pages of original newspaper clippings detailing the development of the Field. There are also sections on the later history of the Field and its impact on Yazoo County and the State. The Bulletin also pays tribute to Frederic F. Mellen for his contribution to his profession and to the State.

The bulletin may be ordered from the Mississippi Geological Survey, 2525 North West Street, P. O. Box 4915, Jackson, Mississippi 39216. Payment of \$1.25 must accompany orders.

USM OFFERS COURSE IN HYDROLOGY

A course in Hydrology, (an introduction to the origin, distribution, movement, and properties of the waters of the earth) will be offered at Universities Center, winter quarter, beginning the week of December 2; The course which will be held in Jackson is offered through the Geology Department at the University of Southern Mississippi. For further information, contact Dr. Brantley Greeson, Director, Mississippi Universities Center.

PETROLEUM AUXILIARY

Approximately 50 members and guests attended a covered-dish luncheon at the Riverside Club house on Tuesday Oct. 15. Plans are being made now for a Christmas Sherry party to be held in the home of Mrs. Ralph Hines, 2253 Wild Valley Drive, on December 10th from 3:00 p.m. to 6:00 p.m. Make your plans now to attend.

JURASSIC CROSS - SECTIONS

Shown below is the index map of the nine Jurassic Cross-Sections recently completed by the Cross-Section Committee. The price of the set is \$45.00, with individual sections costing \$8.00 each, including postage and handling. Cross-Sections can be ordered from the following address: Miss. Geological Society, P. O. Box 422, Jackson, Mississippi 39205.



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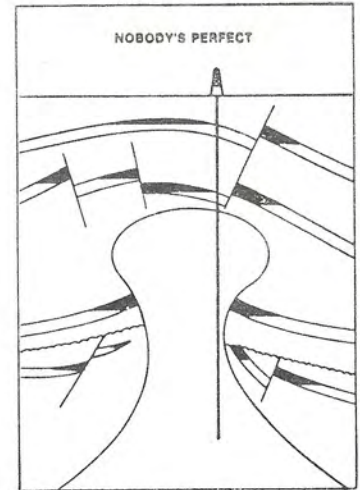
PROGRESS

By Jim McMullen, Petroleum Information Mississippi Completions
Aug. & Sept., 1974

EXPLORATORY	Oil	Gas	Dry
Eocene	1	0	22
UK	0	0	5
LK	0	0	2
Jurassic	1	0	5
Paleozoic	0	1	5
DEVELOPMENT	Oil	Gas	Dry
Eocene	4	0	8
UK	1	0	1
LK	0	0	1
Jurassic	2	0	0
Paleozoic	0	0	1

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MISSISSIPPI GEOLOGICAL SOCIETY

P. O. Box 422
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NEWS

BULLETIN

MISSISSIPPI GEOLOGICAL SOCIETY



VOL. XXX NO. 3 December, 1974

NEW METHODS OF HYDROCARBON DETECTION TOPIC DECEMBER 10

SEDIMENTARY PROVINCES, LITHOLOGIC PARAMETERS, AND DIRECT HYDROCARBON INDICATORS

by Richard M. Zoerb
Chief Geologist, Petty-Ray Geophysical Inc.
Houston, Texas

ABSTRACT

Direct hydrocarbon-finding techniques are distinctly geophysical in nature, but they cannot be ignored by the geologist, whose chief concern is with the geographic breadth of their application. The methods are based chiefly upon changes in seismic wave amplitude, frequency and velocity, and in all instances there exist limits to the ranges in which anomalous behavior can be observed.

Optimized reliability in interpretation calls for good record quality, hence great importance must be attached to the physical properties of the sediments being studied. Velocities in excess of 12,000 ft/sec can prove troublesome, porosities should be greater than 10 percent, and interfaces between differing strata should be sharply defined. Experience has shown the methods to be most effective in Tertiary sand-shale sequences where gas is the principal hydrocarbon.

Most exploration efforts can benefit from advanced interpretation procedures. A key input requirement is good data, properly processed for the purpose intended. Skill in interpretation is equally important in that experience helps avoid misreadings which can stem from a variety of causes.

The scope of application of the new hydrocarbon-finding methods is practically unlimited in the geographic sense. However, it is in offshore regions that the value of the techniques can be most readily demonstrated. Applicability of the new techniques to several major geologic provinces is discussed in terms of the geologic history and geophysical characteristics of each.



Mr. Richard M. Zoerb, Chief Geologist with Petty-Ray Geophysical, Inc., Houston, Texas, will address the M.G.S. on Tuesday, December 10, 1974. The meeting will be held at the Petroleum Club in the Capitol Towers Building, 125 S. Congress Street, in Jackson. A social hour at 5:30 P.M., will precede the dinner at 6:30.

Mr. Zoerb attended Colorado School of Mines where he received Geological Engineering and Master of Science degrees. He received a Master of Business Administration degree from New York University and attended Goethe Institute, London; Alliance Franchise, Paris; and Michigan State University.

His present responsibilities at Petty-Ray Geophysical, Inc. range from confirming geological authenticity of interpretive projects to geological consulting and coordination of efforts of the Interpretation Group.

He previously served for seventeen years as staff geologist (Senior) in the international department of Amerada Hess Corporation, New York. Applied research in geology has covered most oil-prospective parts of the Eastern Hemisphere and Latin America. Longer terms of assignment have included work, some of it in the field, in Spain, Tunisia, France, South Africa, England and Iran. Particularly comprehensive regional investigations have dealt with the Indian subcontinent, Caribbean and Indonesian archipelago and the west African littoral.

MISSISSIPPI GEOLOGICAL SOCIETY CALENDAR

Dec. 10	Zoerb's talk MGS Petroleum Club Social Hour 5:30 p.m. - Dinner 6:30 p.m.
Dec. 10	Christmas Sherry Party Petroleum Auxiliary Mrs. Ralph Hines, 2253 Wild Valley Drive 3:00 p.m. to 6:00 p.m.
Dec. 16	Jackson Geophysical Society Primos Northgate Social Hour 5:30 p.m. - Dinner 6:30 p.m.
Oct. 22-24	G.C.A.G.S. Annual Meeting Holiday Inn, Jackson, MS.

FOR RESERVATIONS TO THE DEC. 10 MEETING CALL T. C. RADER'S OFFICE BY NOON MONDAY DEC. 9, PHONE 948-4128

SEASON'S
GREETINGS

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Jim McMullen	Statistics	Petroleum Information

Printed in Jackson, Mississippi

THE AAPG BULLETIN is one of the finest scientific journals in the world. In recent years its costs of publication have exceeded the Association's income from membership dues. This deficit will increase and a solution to the problem must be found.

Several years ago the AAPG Foundation was established to fund research projects, publication, technology of exploration and other programs beyond the means of the AAPG's operating income. It is now necessary for the Foundation to assume the costs for printing the BULLETIN. In order to do this and to carry out its other objectives, a trust fund of about 10 million dollars will be needed.

We are calling on all companies in natural resources industries, AAPG members, affiliated societies and sections and other interested groups to assist in reaching this goal.

As a part of the project, it is suggested that each affiliated society set up a Foundation Committee. The responsibilities of the Committee will be to contact every AAPG member in the society and encourage him to support the Foundation. The basic plan is this:

1. Within the next few weeks each AAPG member will be mailed information concerning the Foundation and will be asked for a financial contribution.
2. The Foundation Committee in each affiliated society should then canvass each of its members to:
 - a. Explain the programs of the Foundation and the purposes of the trust fund.
 - b. Assist in obtaining the individual's financial support for the Foundation.

It is interesting to note that the Foundation's assets are now nearly \$1 million and about 80% of this has come from individual contributions. These range in size from \$1.00 (mainly students) to about \$250,000 (the highly successful and affluent geologists) - yet from individuals. This speaks well for basic support for the Foundation within the profession.

U.S.G.S. TO HOLD RESEARCH CONFERENCE

The Branch of Oil and Gas Resources, together with the Branches of Atlantic-Gulf Marine Geology and Pacific-Arctic Marine Geology wishes to announce the "USGS Petroleum Research and Resources Seminar," an open conference to be held Wednesday and Thursday, December 11 and 12, in Golden, Colorado, where we shall review status and directions of our current topical research, as well as research in frontier onshore and offshore basins. As you may know, oil- and gas-related research has been sharply accelerated by USGS during the past two years, and we feel it is time to show you what we have been doing! Also, we wish to provide an opportunity for discussion and exchange of ideas and information.

The conference will begin promptly at 8:00 a.m. in the main auditorium of the Green Center, on the campus of Colorado School of Mines, in Golden. Morning sessions will feature short summaries of 32 major petroleum-related USGS research projects; afternoons are deliberately being left open to allow for informal individual discussions between Academic, Government and Industry Geoscientists. The afternoon sessions will take place in the Green Center and in USGS facilities at the Federal Center in Lakewood, a few miles southeast of the CSM campus. The conference will conclude at 5:00 p.m., Thursday, December 12. For additional information, please write to:

Research Conference
Branch of Oil and Gas Resources
Bldg. 25, Federal Center
Denver, Colo. 80225

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A.A.P.G. NEWS

As stated by President Merrill W. Haas, the AAPG has credibility with the Federal Government which can be used to counter the multitude of so-called experts who, by issuing unfounded charges, have molded public opinion to make the petroleum industry the scapegoat for the energy crisis. In an effort to provide public officials with data they can trust and use in their decision-making process, the Special Committee on Public Affairs has been established by the AAPG Executive Committee.

Michel T. Halbouty is the General Chairman of this Committee. Reporting to him will be District Chairmen who have responsibility for the program in the states assigned to each. Two individuals will be appointed for each state as Direct Communicators to serve under the District Chairman.

The Direct Communicator must be a member of AAPG. He should have cordial relations with his Senator, be an individual whom the Senator respects and from whom he will seek and accept advice. Preferably, the Direct Communicator should be a prominent member of the community, a competent geologist informed on current events, articulate and persuasive, motivated, and free to spend time in carrying out his duties. His contacts must be conducted on an irreproachable ethical and moral level, that of a concerned citizen and geologist on an educational and informational mission. His duties shall consist of visits with his Senator, and the frequency will depend on the existing circumstances. He will attempt to keep the Senator informed by personal contacts, occasional telephone calls, telegrams, and letters.

Assisting the General Chairman, the District Chairman, and the Direct Communicators will be a Coordinating Committee under the chairmanship of J. R. Jackson, Jr., P. O. Box 2180, Houston, Texas 77001.

Individual AAPG members who desire to participate in this program should get in touch directly with Mr. Jackson or James H. Davis (same address, AC 713/221-5979).

This program, although directed to informing the Senators, does not preclude others from communicating with their Representatives or other elected officials when information is needed. Each member of our Association needs to keep informed and to communicate with the public by addressing clubs, schools, etc. We must deal in facts. With facts, we can perform a service to our profession and to our nation.

General Chairman Halbouty will welcome response. Let's give him our full cooperation.

Members of Mississippi Geological Society
as of December 1, 1940

*W. Blown down
1/2 scale
from standard*

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Courtney, E. A.	Texas Co.	Jackson
Cox, W. R.	The 4 Horsemen	Jackson
Dawson, Joe	Southwood Oil	Dallas, Tex.
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Head of the Dept. of Geology
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Birmingham, Alabama

Mr. Arthur Blair
Chief Geologist
Tennessee Coal & Iron Company
Birmingham, Alabama

In the column above and to the left is a list of the Membership that comprised our Society thirty-four years ago. There were 112 members, 2 of which were honorary members. Urban Hughes, Independent from Laurel was the President; Tom McGlothlin, Independent from Laurel, Vice-President; and Dave Harrell, Independent from Jackson, Secretary-Treasurer. These three men as well as five other people are still members of our Society. The five other members are Al Beasley, Merrill Harris, Winnie McGlammer, Maurice "Dutch" Miesse, and Dick Priddy. There is only one present member who, to the best of our knowledge had a father in the Society in 1940. C. L. Morgan was a member in 1940 and his son, Dan, is presently a member.

The Society has a total of 317 members as of October 15, 1974.

PROGRESS

By Jim McMullen, Petroleum Information
Mississippi Completions
October, 1974

EXPLORATORY	Oil	Gas	Dry
Eocene	1	0	6
UK	0	0	3
LK	0	0	2
Jurassic	0	0	3
Paleozoic	0	0	4

DEVELOPMENT	OIL	GAS	DRY
Eocene	5	0	9
UK	2	0	3
LK	0	0	1
Jurassic	0	0	0
Paleozoic	0	5	5

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CALL FOR PAPERS - GCAGS 1975

The Mississippi Geological Society will host the G.C.A.G.S. Convention in Jackson Oct. 22-24, 1975. This will be the Silver Anniversary meeting and we intend for it to be the best ever.

Prospective speakers are urged to submit a title and, if possible, a brief abstract for consideration of the Program Committee. The Editor has set deadlines of April 1 for receipt of title and abstracts and June 1, 1975, for the manuscripts. Specific instructions as to requirements for publication will be mailed to the authors immediately upon selection.

Emil T. Monsour
Program Chairman
1975 G.C.A.G.S. Convention

PERSONAL NEWS

Ken Turner, the Jackson area representative of Schlumberger Well Services has been transferred to Gillette, Wyoming, as district manager.

Gary Patterson, former engineer with Schlumberger Well Services in Natchez, Mississippi, was transferred to Jackson as Schlumberger's representative for this area. Gary received his B.S. in petroleum engineering from the University of Kansas.

James W. (Buddy) Twiner formerly with Union Oil of California has accepted a position as geologist with Florida Gas Exploration Co., Jackson, Miss.

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MISSISSIPPI GEOLOGICAL SOCIETY

P. O. Box 422

Jackson, Mississippi 39205

NEWS

BULLETIN

MISSISSIPPI GEOLOGICAL SOCIETY



VOL. XXII No. 4, JANUARY 1975

EAST TEXAS FIELD SUBJECT OF LOCAL MEMBER'S TALK JANUARY 7

THE EAST TEXAS FIELD

DONALD REESE TO SPEAK TO MGS

It was all of the oil booms in history rolled into one.

It was Titusville and Spindletop and Greater Seminole and Signal Hill and Borger and Paola and Rennox Creek and El Dorado and Jennings and Salt Creek.

It was the greatest treasure hunt American had ever seen.

The prize was an "ocean of oil" beneath the red clay of East Texas. The treasure chest was unlocked by an old wildcatter, Columbus Marion Joiner, who scorned the experts and the odds as he struggled and finally sunk his well on the Widow Bradford's farm.

The "little men" raced into the area ahead of the big oil companies - and the Black Giant that Joiner had discovered turned out millionaires like the mint turns out dimes. . .among them H. L. Hunt.

Elsewhere the Great Depression had idled factories and hopeless Americans stood in bread lines. But the resourceful, good and bad, swarmed into East Texas. Kilgore, a hamlet of 700, became a wild congregation of 10,000 boomers, desperadoes and hookers in three tumultuous days. The natives of the entire area, black and white, who had lived on the brink of starvation for a decade, became rich overnight.

There was no law. . .until Texas Ranger Lone Wolf Gonzauilas rode in single-handed against an army of outlaws. Thousands of wells flowed wide open. Ingenious "hot oil" runners flourished. The "big boys" and the "little men" fought for control of the field while oil sold for a nickel a barrel. Martial law was declared, troops marched in. The federal government threw its might into the conflict.

But despite the madness, the great field pumped new strength into the nation's financial arteries. Later, the Allied assault on Hitler's Europe could not have been mounted on schedule, nor sustained, without the Black Giant's production and the Big Inch pipeline that carried it to the Eastern Seaboard.

Finally, out the chaos grew conservation laws that ended reckless drilling and wild dissipation of a field's reservoir. The Boom-and-Bust days were gone forever.

(MAP OF FIELD ON PAGE THREE)

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Mr. Donald M. Reese, who scouted the Daisy Bradford No. 3 (discovery well of the East Texas Field) will speak to the society on January 7 at the Petroleum Club. Take note that this date is one week earlier than our regular meeting time. A social hour at 5:30 p.m. will precede the dinner at 6:30.

Mr. Reese was born in Lincoln, Nebraska, attended public schools there but graduated from high school at Ontario, Calif. He received a B.S. degree in Geology from the University of Nebraska in 1926. His first professional employment was with Henry L. Dougherty, the forerunner of Cities Service, as surface geologist in Coahuila, Mexico. In 1927 he went to work for Sinclair Oil and Gas Co. in Abilene, Texas and did surface work in the Edwards Plateau and West Central Texas areas.

In March of 1930 Sinclair transferred Mr. Reese to Tyler, Texas as a geological scout and it is in this period of time that he will relate his experience in the hectic development of the East Texas Field. He remained in Tyler until 1938 at which time he was transferred to Houston, Texas as District Geologist over the Gulf Coast area. This assignment lasted until 1941 when he was transferred to Jackson, Ms. as Division Geologist with supervision over the Southeastern United States. In 1944 he resigned from Sinclair Oil and Gas Co. and became Exploration Manager of Atlas Oil and Refining Co. of Shreveport, La. He continued to live in Jackson and in 1946 severed connections with Atlas and became an independent oil operator. Mr. Reese is semi-retired at this time.

MISSISSIPPI GEOLOGICAL SOCIETY CALENDAR

Jan. 7	Reese's Talk, M.G.S. Petroleum Club
Jan. 20	Jackson Geophysical Society Primos Northgate Social Hour 5:30 p.m. Dinner 6:30 p.m.
Jan. 21	Petroleum Auxiliary Bridge Luncheon 10:00 A.M. Colonial Country Club

For reservations to the Jan. 7 meeting call T. C. Rader's office by noon Monday, Jan. 6, phone 948-4128.

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PRESIDENT'S NOTES

by Gene

I would like to take this opportunity to bring you up-to-date on activities that are planned for the rest of the society year. As far as our programs are concerned, we have plans for two papers to be presented by members of this society. I won't mention names or titles but both will be Jurassic papers. In March we will have Dr. el Zamil, and Arabian, as our lecturer. Dr. el Zamil is sponsored by the A.A.P.G. and will express an Arab's view of the economic and political aspects of international oil. This should be a most interesting talk.

Preliminary work has been done toward the publication of a supplement to the Society's Redbook. Joe Bradley has undertaken this task and hopefully the supplement will be finished by the time the G.C.A.G.S. Convention is held here in Jackson in October, 1975. Joe tells me there are 34 fields in Mississippi (excluding Wilcox) and 17 fields in Alabama that need to be worked. Should he approach you for some help, be cooperative.

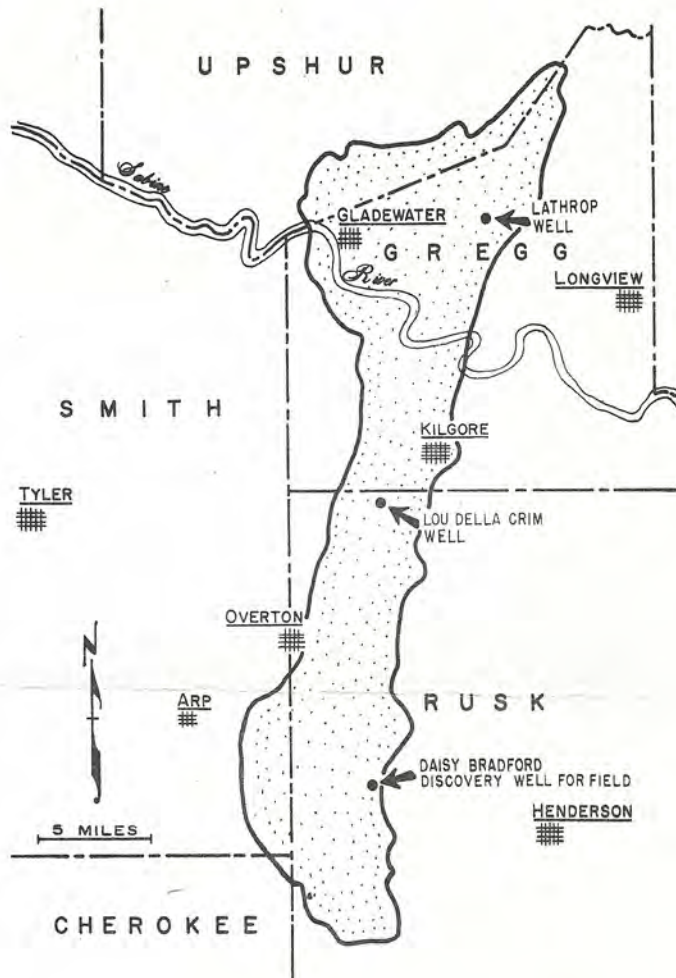
The Executive Board would like to have a one day seminar for the society sometime in the spring. Subject matter, time, and place have not been decided. Any suggestions? It is thought that a one-day seminar, similar to the "Bright Spot" sessions we had last year might be preferred over a three-day session.

In October, 1975, the G.C.A.G.S. Convention will be held in Jackson. The various committees have been chaired and several of these committees have already made considerable headway. The Program Committee has done an excellent job in arranging for papers, but more are needed. If any member would like to present a paper or if they know of a good paper, please contact Emil Monsour, Lone Star Gas.

President's Notes continued

Co., Jackson, Miss. Deadline for abstracts is April 1 and for manuscripts is June 1, 1975.

By the time this bulletin is received, Christmas and New Years will have passed. On behalf of your Executive Board, we hope your holidays were joyous and we wish you good health and prosperity in 1975.



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GULF COAST JURASSIC - NEW AAPG REPRINT

The AAPG has recently announced publication of Reprint Series 12, Jurassic of the Gulf Coast I; Regional Stratigraphy and Reprint Series 13, Jurassic of the Gulf Coast II; Local Stratigraphy and Deposition. These have been compiled by Jules Braunstein, who also wrote the preface for each of the publications:

These two volumes contain papers published in the AAPG Bulletin between 1942 and 1973. They both contain 214 pages; Reprint Series 12 has 3 papers and Reprint Series 13 has 9 papers. Price of these publications are \$4.00 each to AAPG and SEPM members and \$5.00 to all others. Please send your check to:

The American Association of Petroleum Geologist
P. O. Box 979
Tulsa, Oklahoma 74101

One personnel officer, annoyed by the report from his secretary that troops and members of the staff were using the new copying machine for personal documents, posted this notice on the machine. "Troops are not to tamper with the secretary's reproduction equipment without approval of the officer in charge."

DECLINING YEARS OF HYDROCARBON PRODUCTION

One of the hazards of maturity is a failure to recognize changes that accompany the aging process. When the first big snow falls, hundreds of older males charge out with their shovels and attack the white stuff. They behave as if they were youths of twenty. Heart attacks follow.

The analogy is imperfect with respect to the United States and its approach to energy problems. Nobody but nobody is charging around. However, there has been a failure to recognize the limitations accompanying the maturing process.

We remember ourselves as a nation of great technological competence that was able to place men on the moon. The present reality is that we cannot do well such a simple thing as burn coal. In addition, this nation is rapidly losing its ability to take hydrocarbons out of the ground, and there is no prospect that the ability will ever be fully restored. Yet the country acts as if it were in its youth when it could afford to squander its resources.

Perhaps, one day, there will be abundant supplies of energy derived from the sun, the wind, the oceans, fusion, or geothermal sources. But these sources will not make substantial contributions for a decade of two or three. Before we reach those promised lands of abundant energy, some of which may turn out to be mirages, we must endure the crippling realities of the next decade, and especially the next 3 years. Unless very substantial new areas are opened to exploration for oil and production is developed quickly, the energy from domestic hydrocarbons (oil and natural gas) will decline to 15 to 20 percent below what it was in October 1973 when the oil embargo began. Only a small part of this drop will be made up by energy from additional nuclear plants coming on line or by coal from underground mines.

Throughout this century, except for several years during the Depression, the United States has experienced steady growth in the use of energy. Unless we can obtain and pay for much larger imports of oil, the drop in energy consumption will be similar to that of the early 1930's. If the widely quoted relation between energy consumption and gross national product is valid, we face a long period of recession. In addition we face greatly heightened vulnerability to a new embargo.

Merely to maintain current total energy consumption would require increasing imports of oil by 2 to 3 million barrels a day over present levels. Recently, Canada announced that it was cutting back oil shipments to the United States, and Venezuela has curtailed production. Additional imports must come mainly from the Eastern Hemisphere.

Last winter was only a tiny sample of what might happen in the near term. The Arabs cut back production only 25 percent, the weather was mild, the effective duration of the embargo was about 3 months. With their present enormous dollar holdings, the Arabs could afford an embargo of more than a year's duration and with a much deeper cut in production.

Perhaps Dr. Kissinger can talk the oil producing and exporting countries out of indulging in the pleasures and profits of a new adventure. But maybe history will show that the Arabs merely used Dr. Kissinger.

We cannot afford to continue procrastinate. Now, and for the next decade, time is against us. We should stop sitting on our behinds content with visions of a glorious past. If this country is to have a good future it must awake to the new scene and begin to move with programs of conservation, substitution for hydrocarbons, and development of additional sources of energy. - Philip H. Abelson

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PERSONAL NEWS

Donald H. Turner, with Union Oil Company of California, was transferred from Casper, Wyoming to the Jackson district effective January 2, 1975.

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PROGRESS

By Jim McMullen, Petroleum Information
Mississippi Completions
November, 1974

EXPLORATORY	Oil	Gas	Dry
Eocene	2	0	9
UK	0	0	1
LK	0	0	1
Jurassic	0	0	1
Paleozoic	0	0	3

DEVELOPMENT	Oil	Gas	Dry
Eocene	0	0	5
UK	1	0	1
LK	0	0	0
Jurassic	1	0	2
Paleozoic	0	1	0

NEW FIELDS

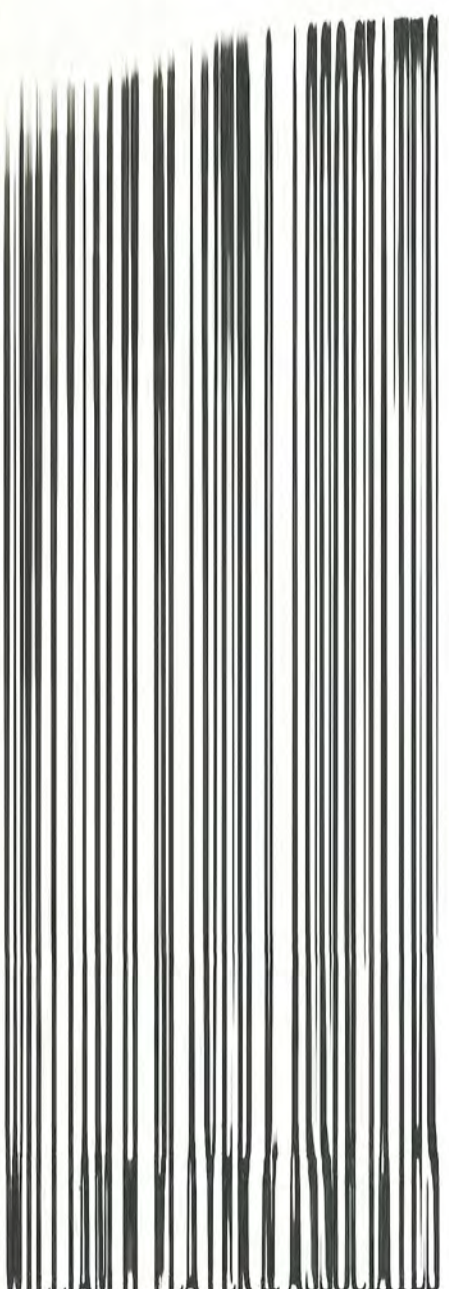
Wearly Branch Biglane, Williams, Hunt, Miller & Layman
No. 1 Loper-Anderson
SEc. 24-5N-1E Franklin Co.
Perf. 6438-39 1/2 Wilcox (Jenkins sd.)
IP/F 90BOPD 11/64" ch. T.P. 100 lbs.
Gravity 36 deg.

Dixon's Bayou Biglane Operating Co. No. 1 Pettis
Sec. 5-3N-3W, Wilkinson Co.
Perfs. 7043 1/2 - 45 1/2 Wilcox (Armstrong sd.)
IP/F 122 BOPD 7/64" ch; T.P. 680 lbs.
Gravity 47 deg.

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NEWS

BULLETIN

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MISSISSIPPI GEOLOGICAL SOCIETY

VOL. XXII, No. 5, FEBRUARY 1975

BAY SPRINGS SAND TOPIC FEBRUARY 10

THE SUBSURFACE JURASSIC BAY SPRINGS SAND

by Lester Aultman
Geologist, Pruet and Hughes Co.
Jackson, MS

ABSTRACT

The Subsurface Jurassic Bay Springs sand has proven to be a significant reservoir with the discovery of hydrocarbons in Shongelo Creek and Tallahalla Creek fields of Smith County, Mississippi, and the Bay Springs and Waldrup fields of Jasper County, Mississippi.



The Bay Springs sand is a facies of the Haynesville Formation and has as its updip equivalents the Cotton Valley massive Pink Sandstone facies and Haynesville clastics, evaporites, and carbonates down dip.

The sand occurs along a salt feature energy trend from southeastern Jasper County to southwestern Scott County, Mississippi.

The genesis of the sand is either of delta destructional nature or a coastal dune and strandline development.

Mr. Lester Aultman, a local member of our Society, will address the M.G.S. on Monday, February 10, 1975. Please take note that this is one day earlier than our normal meeting time. Call in your reservation to T. C. Rader so he can make the necessary arrangements and avoid the delays that some experienced at our last meeting. The meeting will be held at the Petroleum Club with a social hour at 5:30 p.m. followed by dinner at 6:30.

Mr. Aultman was born in Covington County, Mississippi and attended public school at Seminary, Mississippi. He graduated from Seminary High School in 1961 and enrolled at Mississippi College. He received a B.S. degree in Physical Education from Mississippi College in 1965. After coaching for five years he re-entered college in 1970 at the University of Southern Mississippi to pursue a degree in Geology. After receiving a B.S. in 1971, he entered geology graduate school at Southern and completed his course work in 1973. He is presently completing work on his thesis. While at Southern, Aultman was a member of Sigma Xi, National honorary research society and also President of U.S.M. Geological Society.

Upon leaving Southern, Aultman began work with Gulf Oil Co. in Jackson as an exploration geologist. He is presently employed as a geologist with Pruet and Hughes Co. of Jackson.

In addition to being a member of the local Society he is also a member of A.A.P.G.

JACKSON GEOPHYSICAL SOCIETY TO HAVE LADIES NIGHT FEB. 17

Homer Lynn will present a program of color slides of the Far East at the annual Ladies Night Meeting of the Jackson Geophysical Society. The meeting will be held at the Patio Club with a social half-hour to begin at 6:30 p.m. and the dinner to follow at 7:00. After the program is over, members and their ladies will be able to avail themselves of the facilities of the Patio Club, such as dancing and a cash bar.

MISSISSIPPI GEOLOGICAL SOCIETY CALENDAR

- Feb. 4 Isidore Zietz's talk A.I.P.G.
Social Hour 5:30 p.m. - Dinner 6:30 p.m.
Primos Northgate
- Feb. 10 Aultman's talk M.G.S. Petroleum Club
Social Hour 5:30 p.m. - Dinner 6:30 p.m.
- Feb. 17 Homer Lynn's Slide Presentation
Jackson Geophysical Soc. Ladies Night
Social Half-Hour 6:30 p.m. - Dinner 7:00 p.m.
Patio Club
- Feb. 22-23 Miss. Gem & Mineral Soc. Annual Show
State Fairgrounds Jackson, Miss.
- April 7-9 A.A.P.G. & S.E.P.M. Annual Meeting
Dallas, Texas
- Oct. 22-24 G.C.A.G.S. Annual Meeting
Holiday Inn. Jackson, Miss.

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SPONSOR FOR FEBRUARY MEETING

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For reservations to the Feb. 10 meeting call T. C. Rader's office by noon Friday, Feb. 7, Phone No. 948-4128

January 6, 1975

President and Newsletter Editor
Mississippi Geological Society

Gentlemen:

They said it couldn't be done! Almost everyone who attended the AAPG Annual Meeting in San Antonio last April said it was the best and most fun ever and that no other group could match it. We were there and we were inclined to agree.

But that was before the "Dallas-75" bunch got organized. Committee action may be a poor way to design a bridge, but it has proved to be a great way to generate ideas and kindle enthusiasm. We have accepted the challenge! We believe we can show you as good a program and just as much fun as you had at San Antonio. To back up this claim, we enclose a summary of the Entertainment Activities, and we especially call your attention to the International Wine-Tasting/Gourmet Festival.

Dallas can accommodate a large turnout comfortably, and we encourage you all to come and enjoy yourselves. The more the merrier.

Yours very truly,

Jerry L. Nelms,
Publicity Chairman

JLM:ni

P. S. The Dallas Convention Announcement which includes the Hotel Reservation Form and the Advance Registration card will be mailed to all members before the end of January. A supply of these announcements also will be sent to you by February 1 for distribution to interested society members.

MISSISSIPPI GEOLOGICAL SURVEY
PUBLISHES
JURASSIC CROSS SECTION

The Mississippi Geological Survey announces the publication of a geological cross section entitled, "Northeast-Southwest Cross Section of the Jurassic Sediments, Newton and Jasper Counties, Mississippi," prepared by Staff Geologist Victor N. Fischer. It is printed in nine colors and is produced on a horizontal scale of one inch equal to one mile. The vertical exaggeration is 26.4 times the horizontal. Dimensions of the printed section are thirty-seven inches by fifty-six inches.

In view of the increasing energy shortage, the Mississippi Geological Survey is attempting to aid in the search for the undiscovered larger oil and gas reserves believed to be present in stratigraphic and lithologic facies at pinchout traps.

This type section was designed to illustrate that the Jurassic sediments have the elements for trap production and can be traced in sufficient detail to isolate narrow producing trends which could continue for miles.

The cross section sells for \$6.00, plus 50 cents postage and handling charges and can be ordered from the:

Mississippi Geological Survey
P. O. Box 4915
Jackson, Mississippi 39216

PROGRESS
By Jim McMullen
Petroleum Information

MISSISSIPPI COMPLETIONS

December 1974

EXPLORATORY	OIL	GAS	DRY
Eocene	0	0	7
UK	0	0	2
LK	0	0	1
Jurassic	0	0	2
Paleozoic	0	0	1
DEVELOPMENT	OIL	GAS	DRY
Eocene	1	0	1
UK	0	0	0
LK	0	0	0
Jurassic	0	0	0
Paleozoic	0	5	0

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AMERICAN INSTITUTE OF
PROFESSIONAL GEOLOGISTS
TO HOST JOINT MEETING.

Isidore Zietz, geophysicist, U. S. Geological Survey, Reston, Virginia, will present a discussion of aeromagnetism as a tool for minerals exploration. Following his discourse, he will answer questions from the audience.

Other participating organizations are the Governor's Office of Science and Technology, Jackson Geophysical Society, Mississippi Academy of Sciences, Mississippi Geological Society and the Mississippi Section AIME.

Zietz received his B.S. and M.S. in mathematics from City College of New York. In 1946 he joined the geophysical branch of the U.S. Geological Survey where he has been working primarily on the interpretation of aeromagnetic data and its application to regional and crustal geologic problems. He was chief of the regional geophysics branch, USGS from 1960-1965, associate editor "Geophysics" 1966-67, secretary, section of Geomagnetism and Paleomagnetism, AGU from 1971-73, and Vice-President, Potomac Geophysical Society 1973-74. He is currently Professional Lecturer in Geology, George Washington University. He has participated in a number of international scientific exchanges and is a member of numerous professional societies.

Reservations may be made prior to Jan. 30 with Mrs. Donna Jones, Shenandoah Oil Company, 5th Floor, Standard Life Building, Jackson, Mississippi 39201, Telephone (601) 355-8305. The program will be held at Primos Northgate Restaurant, Feb. 4, Social Hour 5:30, Dinner 6:30, Program 7:30, cost \$6.50 per person.

There are so many hearings being held in connection with energy resource exploration, and so many organizations giving testimony, that an individual group such as AAPG is hard pressed to know whether its efforts were productive in any particular instance. In the last Executive Report, I reported on testimony which I gave on behalf of AAPG in opposition to new regulations proposed by the Department of the Interior governing the release of proprietary data from Outer Continental Shelf exploratory activity.

I am pleased to report that I received the following telegram from Congressman William Archer (R-Texas) dated September 11:

"Have been informed today by Department of Interior that recent geophysical regulations (re:OCS) will be revised. New proposed regulations expected next 3 to 4 weeks. Opportunity will be provided to comment on new regulations."

It would be unfair to imply that AAPG was solely responsible for D.I.'s reevaluation of their proposals. Several organizations, including the New Orleans Geological Society and the Society of Independent Professional Earth Scientists, also made noteworthy contributions. SIPES testimony was of special interest since few of their members are involved directly in the OCS "play." Lucius C. Geer was spokesman for SIPES and portions of his testimony are as follows:

Our membership is shocked and surprised by the proposed changes to which we address ourselves. Automatic release of geologic and geophysical information appears to us to be a seizure of private property and trade secrets without due process of law. Gentlemen, our ideas as to "WHERE IT IS" and whether or not it is profitable to "GO GET IT" are our stock in trade. These trade secrets are our business, our ONLY business.

An individual has a right to his own ideas. These private thoughts and concepts of the geologist, called "interpretations" are his only means of livelihood. Certainly we all realize that now, of all times, we need all of our geologist gainfully and productively employed. Geologists are paid by client oil companies and operators for their interpretations and ideas. Release these ideas to the public and what does the geologist do? Perhaps he "goes foreign" or goes to work for the government - or changes professions. Any of these options not only adds a burden to the taxpayer, but would tend to reduce the number of new oil discoveries. The geologist's rights as an individual should be guarded.

Interpretations and maps, like any other private property, should not be removed from their rightful owners. Data acquisition techniques, whether patentable or trade secrets, whose results are given away effectively destroy the value of those techniques.

I am confident that your Executive Committee will continue to direct actions which will "advance the professional well-being" of the membership. We would appreciate any "feedback" you might want to give us. Let me end by assuring those of you who are concerned primarily about our Association's reputation for scientific quality that it is our intention to nurture and advance this reputation.

AMERICAN ASSOCIATION OF
PETROLEUM GEOLOGISTS
BACKGROUND PAPER No. 1

Industry Response to Higher Domestic
Crude Oil Prices

Price increases for crude oil in 1973 are achieving their objective to stimulate the exploration for new domestic reserves as shown by increased physical activity and capital expenditures. The leading indicators of these activities show significant increases in 1974 over 1973. For instance, exploratory and development drilling are up over 20 percent; workover rigs are up nearly 45 percent; capital expenditures have exceeded 1973 profits by over 50 percent. This significant increase in effort is required to establish new reserves of oil and gas. Large production increases from known domestic reserves are not possible over the next 12 months because they 1) are already producing at maximum efficient rates; 2) are waiting on permit and development (California offshore); 3) are waiting on pipeline construction (North Slope of Alaska) or 4) are being held in reserve by the Federal government (onshore Naval Petroleum Reserves).

Domestic production response to increased exploratory activity resulting from higher crude prices requires long lead times of 4 to 8 years between discovery and significant production. Most optimistically, peak production from a 1974 discovery will not reach U.S. markets until 1978.

At the same time, U.S. production capacity from existing reserves is declining sharply. Production responses to price increases will only be able to mitigate these declines from the current proven areas of the U.S. onshore, which are expected to fall from today's 9 million barrels per day production to around 4 million B/D by 1985. Industry must find large new reserves equivalent in size to currently known reserves just to maintain current production levels for the next 10 to 15 years.

A reasonable profit potential must be indicated if private industry is to sustain the increased level of capital expenditures and exploratory effort needed to discover and develop additional U.S. domestic oil and gas reserves.

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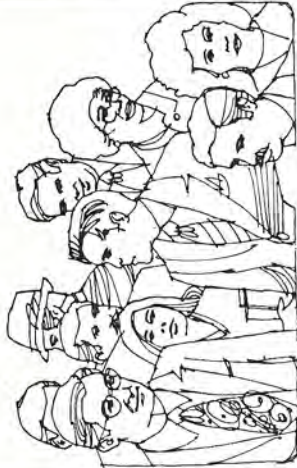
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49th Annual Meeting
Dallas, Texas - April 7-9, 1975



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Tuesday, April 8
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An outstanding speaker, Senator James L. Buckley, will assure you of a most informative, entertaining luncheon experience.

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Especially for you is Dallas' international restaurant guide, complete with taxi fares and distances from downtown Dallas. Complimentary at registration.

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Monday Tuesday . . . Wednesday
8 a.m.-4 p.m.

Meet your friends for refreshments and relaxation in the Hospitality Center, open daily in the Embassy Ballroom of the Statler Hilton Hotel. Tables will be available for bridge players, and other treats await your arrival.



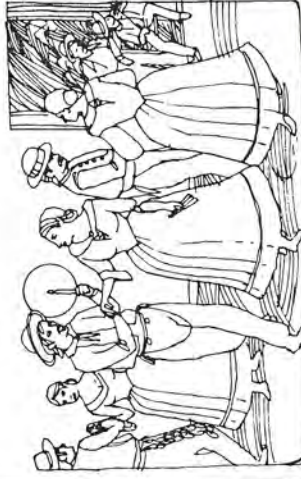
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Monday, April 7 10 a.m.
You'll visit this remarkable, working ranch; watch an Arabian horse show and feast on Texas barbecue, all in the shadows of metropolitan Dallas. Charter buses depart at 10 a.m.



A WORLD OF ART: FORT WORTH

Tuesday, April 8 11 a.m.
From an authentic Japanese garden to the world famous Kimbell Art Museum, Tuesday's short charter bus trip also includes the Amon Carter Museum of Western Art, with its rare collection of paintings by Russell and Remington. Lunch will be served enroute.



DeGOLYER HACIENDA

Wednesday, April 9 . . . 9 a.m.-2 p.m.
Enhance your knowledge of "Indian and Spanish Heritage in the Southwest," at a seminar conducted by S.M.U. professors in the relaxing setting of the Everette L. DeGolyer hacienda. Your visit includes a coffee, a Mexican luncheon and entertainment by a Pan American "folkloric group".

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<p align="center">GEOPHYSICAL DATABANKS, INC. 1234 Loyola Bldg. Room 303 New Orleans, La. 70112 504-581-4724 Grady Loftin Jim Malone CDP data available in the following area: Gulf Coast Appalachinas Rockies Agents for Petroconsultants, S.A.</p>	
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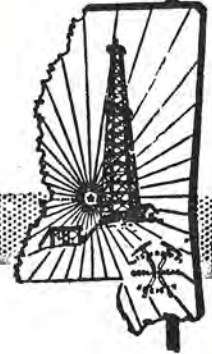
NEWS

BULLETIN

MISSISSIPPI GEOLOGICAL & TOPOGRAPHICAL SURVEY

mississippi geological society

VOL. XXII No. 6, MARCH 1975



AN ARABIAN VIEWPOINT SUBJECT MARCH 5

OIL AS INSTRUMENT OF DEVELOPMENT AND FOREIGN POLICY: "AN ARAB VIEW" by Abdulrahman al-Zamil ABSTRACT

Traditionally oil has been the source of funds needed for socioeconomic development. Producing countries, for many reasons, did not wish to jeopardize this vital source of income. But the political circumstances at long last forced the Arab producing countries to use it as an instrument of foreign policy. Oil's new role was spelled out by HM King Faisal in 1974 when he stated, "Production decisions are not at all compelled by my country's revenue needs; every added barrel of production might then be viewed as a sacrifice of my country's resources to serve the energy needs of the oil-importing world, and thus I shall expect something in return."



Oil in its new role was used mainly as a sanction against those opposing the producing countries' national goals and aspirations and also as a means of granting preferential treatment to friendly nations. The action very clearly brought home to everyone (including those producing countries that did not take part in this action) how effective a leverage, short of force, oil can provide in obtaining national goals.

The lecture discusses the impact and implications of this action for both the producing and consuming countries: whether or not the producing countries will use oil again in the same manner; whether or not the consuming countries will be ready and able to accept it; and whether or not oil ever will be liberated from politics and play only its traditional role as the earner of funds.

Dr. Abdulrahman al-Zamil, Chairman of the General Studies Department of the College of Petroleum and Minerals in Dhahran, Saudi Arabia, will present a lecture to the Society on March 5th, 1975 at 7:30 p.m. Please take note that this meeting will be held on Wednesday night, which is a departure from our regular meeting time of the second Tuesday of the month. This is not a dinner meeting and reservations are not necessary. Dr. al-Zamil's lecture will be held at the War Memorial Building Auditorium (building north of Old Capitol). The speaker is sponsored by the American Association of Petroleum Geologists Distinguished Lecture Committee.

Dr. Abdulrahman al-Zamil was born in the town of Onizah in central Saudi Arabia, but spent most of his youth in the Eastern Province, and was educated in schools in that area and in Bahrain. Dr. al-Zamil holds a degree in law from the University of Cairo, and was awarded an M.A. and Ph.D. in International Relations from the University of Southern California.

During his years in America Dr. al-Zamil was elected USC president of the Organization of Arab Students, and participated in seminars throughout the U.S. in order to draw attention to the economics of oil and its potential use as a political weapon. Since his return to Saudi Arabia in 1972, Dr. al-Zamil has further explored this subject at scientific seminars on Arab economic development held before the League of Arab States in Cairo, at the American University in Beirut and at Kuwait University. As an active member of the Middle East Association and the Arab American Graduate Association, he has lectured on these topics to audiences throughout the Middle East and Europe.

Dr. al-Zamil is the author of many articles on oil economics as well as on other aspects of the Arab world. He has written about the rise of the middle class in Saudi Arabia, the role of the Arabs in the United Nations in the last twenty years, Saudi Arab behavior regarding the law of the seas, and the planning of the Saudi Arab economy. His book, *The Effectiveness and Credibility of Arab Propaganda in the USA*, has been widely praised throughout the Arab world and will appear in an English translation sometime next year. At present Dr. al-Zamil is at work on a book about the role of U. S. educated Saudis in Saudi Arabia's development.

Since 1972, Dr. al-Zamil has served as Chairman of the General Studies Department of the College of Petroleum and Minerals (CPM) in Dhahran, one of the most modern schools of engineering in the world today. He is also coordinator of the consortium committee of twelve universities which form an advisory board to this rapidly expanding college of engineering and science. Universities included on the board are Princeton University, Rochester University, the University of Michigan, the Colorado School of Mines, the University of Alabama, Stanford University, Institut Francais du Petrole, Massachusetts Institute of Technology, Milwaukee School of Engineering, Wentworth College of Technology and the American University in Beirut.

An area of particular interest to al-Zamil is the CMP Gulf Data Bank, of which he is director. The data bank will eventually incorporate all available data and studies related to economic factors, human resources, law, technical data and historical information about the area. When complete, the data bank will be open to all who wish to conduct research on the Arabian Gulf area.

Dr. al-Zamil is also a member of the Information Experts Committee of the Arab League and of the Advisory Committee to the Saudi Arab Government Ministry of Information.

I wish to remind the members of the Society who are coming up soon.

On March 5, Dr. al-Zamil, Chairman of the Department of the College of Petroleum and Mineral Engineering, Saudi Arabia will speak before our members and from the related societies. A notice of this meeting is in this bulletin. This is not a dinner meeting and will be for March.

The details for a one-day seminar are being worked out in Frascogna. It is hoped that a timely and interesting program will be arranged for the latter part of March or April.

Joe Bradley is getting a favorable response from members in updating the Society's Red Book. Hopefully, a supplement ready by the time of the G.C.A.G.S. meeting in October.

You might like to circle May 13 on your calendar for the date of our Spring barbecue at Fowler's Lodge. Tom Culbertson will again furnish the barbecue.

If any member has any suggestions or recommendations, please let these be known to any member of the Board and they will be taken under consideration. Thank you.

**BRAUNSTEIN TO UPDATE
GULF COAST BIBLIOGRAPHY**

The compilation and publication of a bibliography of the Gulf Coast (1969-1973) of the Bibliography of Gulf Coast authorized by the Executive Committee of the Geological Societies. This new volume will also include which were omitted from the first volume.

Please send references (including author's name, publication, and page numbers of citations omitted in the bibliography) to:

Jules Braunstein
Shell Oil Company
P. O. Box 60775
New Orleans, Louisiana 70160

**SHREVEPORT GEOLOGICAL SOCIETY
FIELD TRIP**

The Shreveport Geological Society is sponsoring a field trip to the Paleozoic Ozark Shelf of northern Arkansas. This field trip will leave Shreveport, Louisiana on Thursday, March 20, 1975 from the Continental Trailways Bus Station. We will spend two days in Arkansas and will return to Shreveport on Saturday, approximately 11:30 P.M. The cost of the trip is \$30.00 including the bus trip and refreshments.

If any Society members are interested in attending, please contact:

Jerry D. Alagood
Field Trip Chairman
307 Oil and Gas Building
Shreveport, Louisiana 71101
Tel. 318/221-1568

**HYDROCARBON INDICATORS
SUBJECT FOR JGS MEET MARCH**

Mr. C. B. Stone, Vice-President with Petty-Ray, Houston, Texas, will address the Jackson Geophysical Society on March 17, 1975 at Primos Northgate. The subject of his talk is "Geophysical Hydrocarbon Indicators". There will be a dinner at 5:30 p.m. with dinner at 6:30 p.m. All M.G.S. members are invited to attend this meeting.

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B. SPECIAL COMMITTEES

AAPG Public Information	Vern Culbertson
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PETROLEUM AUXILIARY NEWS

The Petroleum Auxiliary held a Bridge Luncheon at the Colonial Country Club on January 21. Jean Murry was chairman of the event assisted by Ruth Coulson, Sandra Wood, Ann Graham, Lois Daniel, and Leora Lacy. About fifty members attended the meeting.

The next meeting will be March 18th with a trip to the Natchez Pilgrimage. Sadie Linn will be chairman.

MISSISSIPPI GEOLOGICAL SOCIETY CALENDAR

March 5	Dr. al-Zamil's talk M.G.S. War Memorial Building 7:30 p.m.
March 17	Stone's talk Primos Northgate Jackson Geophysical Society Social Hour 5:30 p.m. Dinner 6:30 p.m.
March 18	Petroleum Auxiliary Trip to Natchez Pilgrimage
March 20-22	Shreveport Geological Soc. Field Trip
April 7-9	A.A.P.G. & S.E.P.M. Annual Meeting Dallas, Texas
Oct. 22-24	G.C.A.G.S. Annual Meeting Holiday Inn, Jackson, Miss.

With the accent on North American exploration, the American Association of Petroleum Geologists and The Society of Economic Paleontologists and Mineralogists meet in Dallas April 7-9 to intensify the search for petroleum and alternate energy sources.

Senator James Buckley of New York will address the all-convention luncheon (Tuesday) April 8 in the midst of the societies' 34 technical and general sessions to be conducted over the three-day period in Dallas Convention Center. Over 200 technical papers will be presented.

Some 4,500 geologists and wives are expected for the combined annual meeting, 60th for the AAPG and 49th for the SEPM. Theme of the convention is "Frontiers of Exploration" and the host organizations are Dallas Geological Society and the Southwest Section of the AAPG.

Four pre-convention field trips include: 1) Delaware Basin - deep-water carbonates exposed in Sacramento and Guadalupe Mountains (2-½ days); 2) Ouachita Mountains - sedimentology and sedimentary structures (2 days); 3) North Central Texas - Late Pennsylvanian self sediments (2 days); and 4) Arbuckle Mountains - regional geology (2 days). A post-convention trip on Thursday, April 10, concerns Central Texas - Edwards (Lower Cretaceous) reef complex and associated sedimentation (1 day only).

Merril W. Haas of Exxon Co., U.S.A., Houston is president of the American Association of Petroleum Geologists; Gerald M. Friedman of Rensselaer Polytechnic Institute, Troy, N.Y. heads the Society of Economic Paleontologists and Mineralogists. Robert J. Cordell, Sun Oil Co., Richardson, Tex., is general chairman of the convention.

Our social highlight is an "International Wine Tasting-Gourmet Festival" at North Park Inn Convention Center, Tuesday evening (April 8) featuring a quintet of French, Italian, German, Spanish and American-inspired buffet cocktail parties, with live entertainment at each juncture.

"Special treats for the woman of today," as described in the pre-convention program, will include a barbecue feast and special entertainment at Circle T. Ranch; a tour of Fort Worth's Kimbrell Art Museum and Amon Carter Museum of Western Art; and a luncheon seminar on "Indian and Spanish Heritage in the Southwest" at the Everett L. DeGolyer home in Dallas.

Convention activity hubs will include the Employment Interviews Center in Dallas Convention Center and a host of alumni functions at various Dallas hotels. Technical and educational exhibits, in the Arena of Dallas Convention Center, will be open 8:30 a.m. - 5:00 p.m. Monday and Tuesday (April 7-8) and 8:30 a.m. - 2:30 p.m. Wednesday (April 9).

Convention information and hotel forms are available from the American Association of Petroleum Geologists, P. O. Box 979, Tulsa, Oklahoma 74101.

PROGRESS

By Jim McMullen, Petroleum Information
Mississippi Completions
January, 1975

EXPLORATORY	Oil	Gas	Dry
Eocene	0	0	13
UK	0	0	2
LK	0	0	3
Jurassic	0	0	2
Paleozoic	0	0	0
DVELOPMENT	Oil	Gas	Dry
Eocene	2	0	7
UK	1	0	1
LK	0	1	1
Jurassic	1	0	2
Paleozoic	0	2	0

The Senate Finance Committee has released a document entitled "Profitability of Selected Major Oil Company Operations," a comprehensive compilation and analysis of the profitability of operations of ten selected major integrated oil companies. The document is based on material submitted by these companies in response to a Committee questionnaire. A complete understanding of oil industry profits is essential in order to determine industry ability to generate the capital which will be required if the industry is to perform its role in Project Independence, and so that the Congress can make an informed judgment as to the kind of tax structure appropriate to the petroleum industry.

The ten selected companies, which hold about 75 percent of the assets of integrated oil companies in the United States, are Exxon, Texaco, Mobil, Gulf, Standard of California, Standard of Indiana, Shell, Phillips, Sun, and Standard of Ohio. The analysis covers rates of return on shareholders' investment, net income, and overall effective tax rates for these companies for the years 1964-1973, and for the first time sets forth each company's profit on U.S. operations. For example, the study shows that on U. S. operations for 1973 the weighted average rate of return was 11.3% while on foreign operations it was 20.4%. This compares with the weighted return of approximately 12.8% realized by all U.S. manufacturing companies for 1973, based on the figures reported in the Quarterly Financial Report of the Federal Trade Commission for the fourth quarter of 1973.

This analysis confirms earlier testimony that oil company profits on U.S. operations for 1973 were less than the national average for all manufacturing companies, and that the principal source of the increase in oil company profits for 1973 was the increase in profits from foreign operations.

The analysis also indicates that in 1973 the ten selected companies paid an effective tax rate on their U.S. operations, including Federal, State and local taxes, other than excise taxes, of 42.9%

This analysis is a part of the Committee's continuing study of oil companies' profitability, beginning with Committee hearings held in January and February 1974, and which includes a compilation of data released by the Committee on February 12, 1974. These reports released on February 12, 1974 and now were derived from data submitted at the hearings and from reports issued by the Department of Commerce, the Federal Trade Commission, the Securities and Exchange Commission, the First National City Bank of New York and from the responses of oil companies to a Committee questionnaire. The analysis released was prepared with the assistance of the Economic Division of the Congressional Research Service, a part of the Library of Congress. This analysis, which must be updated to include the results of 1974 oil company operations as they become available, will be of considerable assistance to the Committee when it considers tax legislation affecting the petroleum industry.

Copies of the report are available in the Senate Finance Committee, Room 2227, Dirksen Senate Office Building. Written requests should be accompanied by a return address label.

KEEPING OUR BALANCE

One of the circus acts which always fascinates an audience is the tightrope walker. We admire the ability of anyone who can keep life under control and hold dangerous extremes and opposing forces in balance. Some people go to such extremes that their judgment is impaired and they become fanatics. Others are so overly cautious that they become ineffective and innocuous. Desirable as it is to keep on even keel and avoid excesses, one need not go to the other extreme of doing nothing or maintaining neutrality. The tightrope walker can never just stand still. Like the bicycle rider, he must keep moving just to keep in balance. To keep a proper balance requires action, and if we would keep opposing forces in check we must constantly adjust to circumstances.

-Paul S. McElroy.

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CUTTINGS FROM THE SHALE SHAKER

The operator of a downtown department store was about to close the door of her crowded elevator when a well-dressed but obviously tipsy gentleman pushed his way in. As the car started up he tried to turn around to face the door, but was wedged in so tightly he couldn't move. The other passengers stared into his bleary eyes with growing embarrassment. Finally, when the strain became quite painful, the drunk cleared his throat and remarked, "I expect you wonder why I called this meeting."

A clergyman and truck driver had an automobile crash. The truck driver told the padre what he thought about him in profane terms. When he paused, it was the clergyman's turn.

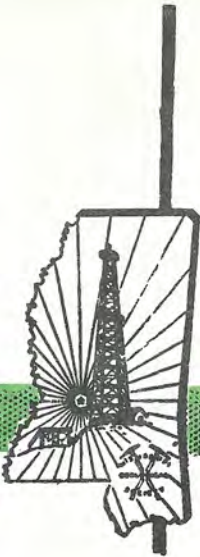
"You know, my good man, that I cannot indulge in your kind of language, but this much I will tell you; I hope when you go home tonight, your mother will run out from under the porch and bite you."

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NEWS

BULLETIN

mississippi geological society



Vol. XXII, No. 7, April 1975

McNEAL FIELD SUBJECT FOR APRIL 15 MEETING

McNEAL FIELD
JASPER COUNTY, MISSISSIPPI
A UNIQUE JURASSIC OIL ACCUMULATION
by Charles A. Barton
Geologist, American Southwest Corp.
Jackson, MS

ABSTRACT

McNeal Field is significant because it is a unique oil accumulation which is quite different from other Jurassic fields in the Southeastern States. The productive section is a Haynesville-Buckner Sand immediately overlying the Jurassic Haynesville-Buckner carbonate-evaporite Series.

The productive sand appears to be an offshore bar that separated the Jurassic carbonate-evaporite sea and the near-shore area of sand accumulation. Immediately overlying the productive sand interval is a thin impervious limestone which forms the seal for the reservoir. This limestone represents a slight transgressive phase of the Haynesville-Buckner carbonate sea.

The Field represents a possible bonus which might be encountered in the exploration for deeper Smackover production. It also shows the need for more detailed stratigraphic studies of the Jurassic carbonate facies.



Mr. Charles A. Barton, former President of our Society, will address the M.G.S. on Tuesday, April 15, 1975. This is a departure from our regular meeting time, as the second Tuesday would have conflicted with the annual meeting of the A.A.P.G. in Dallas. Please call in your reservation to T. C. Rader by Monday, April 14. The meeting will be held at the Petroleum Club with a social hour at 5:30 p.m. followed by dinner at 6:30.

Mr. Barton was born in Brookhaven, Mississippi in 1922 but moved to Jackson with his family at an early age. He attended public schools in Jackson and graduated from Central High School in 1941. Upon graduation from high school, he entered the Armed Forces and served until December 1945. In the spring of 1946 he entered Millsaps College and was graduated from Millsaps in 1949 with a BS in Geology. He continued his studies in geology by accepting a teaching assistantship at the University of Illinois, receiving an M.S. in geology from that institution in the spring of 1951. After receiving his M.S. he was employed by Continental Oil Co. in their Midland, Texas office as subsurface geologist. In 1952 he was transferred to Conoco's Morgan City, La. office as subsurface geologist in their offshore operation. In the latter part of 1953 he went to work for Skelly Oil Co. in their Jackson, Miss. office. He continued with Skelly until he accepted a position with Gulf Coast Drilling and Exploration Co. in late 1959 in their Jackson office. This organization is presently known as American Southwest Corporation and is Mr. Barton's present employer.

From 1957 to 1959, Mr. Barton taught physical geology for the University of Mississippi's Extension Service in Jackson. He is presently teaching a number of advanced courses in geology at Millsaps College.

JACKSON GEOPHYSICAL SOCIETY TO HEAR RESEARCH DIRECTOR

Dr. John W. C. Sherwood, Director of Research with Digicon, Inc., Houston, Texas will address the Jackson Geophysical Society on April 21, 1975 at Primos Northgate Restaurant. The subject of Dr. Sherwood's paper is "The Wave Equation Applied to Migration and Water Bottom Multiples."

There will be a social hour at 5:30 p.m. with dinner to follow at 6:30 p.m.

SPONSORS FOR APRIL MEETING

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MISSISSIPPI GEOLOGICAL SOCIETY CALENDAR

April 9-12	Southeastern Section, G.S.A. Ann. Mtg. Rivermont Holiday Inn, Memphis, Tenn.
April 11	Petroleum Auxiliary Couples Party Northpointe Barn
April 15	Charlie Barton's talk M.G.S., Petroleum Club Social Hour 5:30 p.m. - Dinner 6:30 p.m.
April 21	John Sherwood's talk J.G.S. Primos Northgate Social Hour 5:30 p.m. - Dinner 6:30 p.m.
Oct. 22-24	G.C.A.G.S. Annual Meeting Holiday Inn, Jackson, Miss.

For reservations to the April 15 meeting call T. C. Rader's office by noon Monday, April 14, Phone No. 948-4128.

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Statistics	Jim McMullen

B. SPECIAL COMMITTEES

AAPG Public Information	Vern Culbertson
AAPG Data Bank	Tom Williams

PERSONAL NEWS

Ronald C. Fiske has been transferred from Tulsa, Oklahoma to Jackson with Cities Service. Ron, a graduate of Louisiana Tech will be in the exploration and production department.

Randy L. Stranghoener, a graduate of the University of Missouri at Rolla was transferred from Tulsa, Oklahoma to Jackson with Cities Service. Randy will be in the exploration and production department.

John E. Malanchak a graduate from the Univ. of Southern Mississippi and the Univ. of Western Michigan in geology has joined the Mississippi Geological Survey. John is in the Environmental Geology Division of the Survey. Prior to his coming to the Survey, John worked with E. D'Appolonia Consulting Engineers in Pittsburgh, Pennsylvania as an engineering geologist investigating the subsurface geology for future nuclear power plant locations.

A.A.P.G. NEWS

Stating that any changes in the present laws dealing with the energy resources of the outer continental shelf would bring about radical changes in the U.S. consumer's life style, Merrill W. Haas, president of the American Association of Petroleum Geologists (AAPG), testified today before the combined Senate Committees on Interior and Insular Affairs and Commerce.

Haas described AAPG as a scientific organization whose members were responsible for finding practically all of the major oil and gas

fields in the Free World for the past sixty years. He said that no one could challenge the expertise of AAPG members in these matters. Claiming that (federal) regulation never found a barrel of oil, Haas testified on bills sponsored by Senators Jackson (D. -Wash.) and Hollings (D, -S.C.), which call for the federal government to take over the exploration for oil and gas in the offshore. According to Haas, such proposals would "damage the free enterprise system and the economic well-being of the U.S. consumer and taxpayer."

According to Haas, there is substantial misinformation in Congress about the science of exploring for oil and gas. Paramount is the mistaken belief that a federal exploration program (of the offshore) would tell the public once and for all the oil and gas potentials of the outer continental shelf (OCS). "After twenty-five years of exploration," Haas said, "industry is still finding new fields in the Gulf of Mexico, and potential estimates are still changing. It is ridiculous to assume any one entity, including the federal government, could make an accurate estimate of the OCS."

Stating that the sponsors of federal exploration only confuse the issue before the American people, Haas went on to say, "Such claims ignore the fact that the U.S. consumer pays among the lowest prices in the world for fuel, or that private industry has taken the risk of exploring for the resources and will continue to do so if government refrains from imposing new economic and punitive restraints."

Countering the charge that the current policies have been a giveaway to private industry, Haas stated that over 80% of all revenues generated from the OCS have gone to government and that industry's return through 1973 has been reported to be 4 to 6%, less than some savings accounts.

Haas ended by reminding Congress that while the sponsors recognized the causes that have delayed development of the offshore, their proposed solutions could only cause more delays and prolonged dependence on foreign imports. He said, "If the oil finders of today can practice their profession without new, increasingly burdensome regulations, and spurred by economic incentive, the future is not lost." Haas reminded Congress that it could preserve or destroy the environment necessary to supply new energy supplies.

March 19 - Dean A. McGee, chairman of the board and chief executive officer of Keer-McGee Oil Company, Oklahoma City, has been named recipient of the highest honor awarded by the American Association of Petroleum Geologists, the Sidney Powers Memorial Medal. McGee will be presented with the medal during the AAPG's 60th annual convention, to be held April 7-9 in Dallas.

Announcement of plans for presentation of this and other awards was made here today by AAPG President Merrill W. Haas. He said that the Powers Medal is given in recognition of McGee's longtime service to the Association, including chairmanship of the board of trustees of the AAPG Foundation since 1967. McGee has previously been recognized with Honorary Membership, and last year he received the Association's Public Service Award honoring his many achievements and interests outside the scientific community.

Honorary Memberships will be bestowed on Leslie Bowling, oil and gas consultant from New Orleans, La., and L. Courtney Decius, consulting geologist, San Francisco, Calif.

Michel T. Halbouty, independent geologist, Houston, Tex., will receive the Human Needs Medal, which is intended to recognize geological contributions tending to benefit human needs. Halbouty is an AAPG past-president and has authored numerous technical and non-technical publications about geology and the oil industry.

Other award recipients will be: Lee C. Lamar, Colts Neck, N.J., Public Service Award; Jules Braunstein, New Orleans, La. and Robert J. Weimer, Golden, Colo., Distinguished Service Awards; Clifton F. Jordan, Jr., Big Spring, Tx., J. C. Sproule Award; Ronald E. Wilcox, Bellaire, Tex. and Tod P. Harding and Donald R. Seely, Houston, Tex., President's Award; N. A. Anstey, Kent, England, Matson Award; and W. D. "Bill" Smith, New York, Journalism Award.

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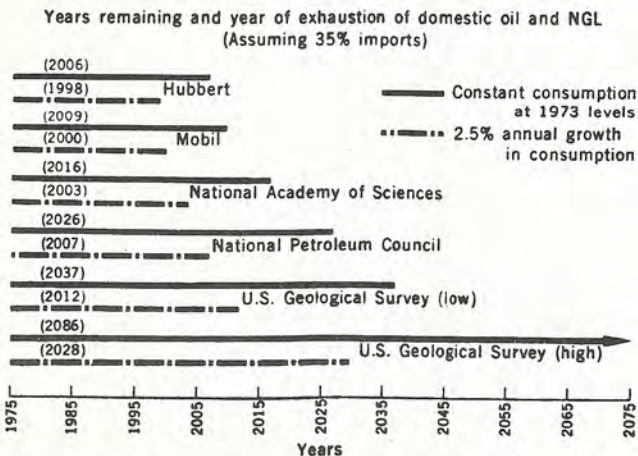
**SENATE STUDY PREDICTS
U.S. OIL "EXHAUSTION"**

The United States could become more, rather than less, dependent on imported oil by the end of the century if the government continues its policy of maximum offshore oil development, according to a report of the National Ocean Policy Study (NOPS), a special staff group of the Senate Committee on Commerce. Accelerated offshore oil development, it concludes, could mean accelerated oil exhaustion.

The recently released draft report, prepared by staff at the Office of Technology Assessment for the NOPS, reaches these conclusions through a survey of the technical literature on U.S. energy resources, including the most recent report of the National Academy of Sciences (NAS) on the subject (Science, 28 February).

Stepping into the current controversy over how much oil and natural gas the country actually has left, the NOPS report argues that if the more pessimistic estimates of the total U.S. resources are correct, the country could "exhaust" these resources as early as 1998. Furthermore, since alternative energy sources are not likely to be ready to meet national needs before sometime in the next century, this exhaustion "may lead to a greater dependency on imports in the long run." The NOPS is a high-level study group established last year to give coherence to congressional actions regarding the many aspects of federal oceans policy (Science, 21 June 1974).

Most experts agree that much of the remaining undiscovered U.S. oil, perhaps two-thirds of it, lies offshore beneath the outer continental shelf (OCS) and in Alaska.



According to the chart adapted from one in the draft report, U.S. oil resources could run out in 1998 or last through 2075, depending on whose estimates of the total resource prove right.

The federal government has leased 5000-acre offshore tracts for oil drilling since 1953, but in the midst of the Arab oil embargo, former President Nixon announced a plan to lease 10 million acres in 1975 alone, an acreage equal to that leased in the entire history of the program.

The 10-million acre accelerated leasing program has been criticized

on environmental grounds and by governors of the coastal states whose economies will be affected (Science, 15 November 1974). But the NOPS report objects to it as bad energy policy.

"The purpose of the accelerated OCS leasing program is to provide the new production that is needed to replace declines from old wells and to reduce or eliminate the need for imports. However, the complete replacement of imports by new domestic production could create a need for greater imports by the end of the century," if the low estimates of OCS resources are true.

The NOPS report bases its statements about "exhaustion" on a series of calculations of U.S. oil consumption over time (see chart). The calculations give new relevance to the various low estimates of U.S. oil resources made most recently in the NAS report, and previously by M. King Hubbert of the U.S. Geological Survey (USGS) and by Mobil Oil Corporation. These estimates are dramatically lower than those that the USGS has used for many years.

What does all this have to do with OCS policy? "The fact which has not been clearly recognized in discussions of an accelerated OCS leasing program is that the appropriate rate for the development of domestic resources is dependent upon which estimates (of total U.S. Oil) are correct," says the report. If the optimistic, or high estimates are valid, then "we have plenty of time to develop alternatives" and can proceed with OCS development, if says. But if the pessimistic, low estimates are right, the government needs to place curbs on energy demand, to speed development of alternative energy sources, and to limit domestic oil production, including OCS oil "below the maximum efficient rate."

The report calls for more exploration prior to a stepped-up program of production—a conclusion that is at the crux of some NOPS-drafted legislation now before the Senate. Under the bill principally sponsored by Senator Ernest F. Hollings (D-S.C.), the federal government would declare a moratorium on all OCS leasing until after it had conducted its own exploratory drilling program and had arrived at a more definitive estimate of the true extent of the nation's treasury of offshore oils.

—DEBORAH SHAPLEY

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DISPOSITION OF USED CARS

The average auto-nobile represents a raw material's investment, in metals alone, of nearly 2 pounds of magnesium, 23 of zinc, 32 of lead, 36 of copper, 76 of aluminum, and over 2,600 pounds of iron and steel.

The 8 million motor vehicles scrapped annually in the United States represent over 10 million tons of iron and steel plus large tonnages of copper, zinc, and aluminum. Two methods have been devised which offer promise for recycling these materials:

1. Shredding plus magnetic separation.
2. Smokeless incineration, hand dismantling and recovery of nonferrous metals, and baling of shredding of the resultant clean steel.

Research conducted on the latter method indicated it to be economically feasible. An incinerator, designed to burn 48 unflattened cars in an 8-hour day, consisting of a primary burning chamber, an attached natural-gas-fired afterburner chamber, and a 54-foot-tall stack was built and tested. Operation of the incinerator for 15 months indicated the following:

1. Up to 52 unflattened or 95 flattened cars can be burned in an 8-hour day.
2. The particulate emissions amount to approximately 1.08 pounds per car (1.8 pounds per car permitted by most state pollution control boards).
3. The cost of burning ranges from about \$2.25 per flattened car to \$2.75 per unflattened car.

Revised and modified from - K. C. Dean and C. J. Chindgren, Principle Investigators "Smokeless Automobile Incinerator" Bureau of Mines Research, 1971, United States Dept. of the Interior, p. 27.

PROGRESS

By Jim McMullen, Petroleum Information
Mississippi Completions
February 1975

EXPLORATORY	Oil	Gas	Dry
Eocene	2	0	10
UK	0	0	5
LK	0	0	2
Jurassic	0	1	1
Paleozoic	0	0	0

DEVELOPMENT	Oil	Gas	Dry
Eocene	0	0	8
UK	0	0	3
LK	0	1	0
Jurassic	1	0	1
Paleozoic	0	0	0

NEW FIELDS:

Fenwick Field - Shortridge & Webster No. 1 Buttons
Sec. 32-7N-1W Auams Co.
Perfs. 4446-49 (Stewart)
IP/PMPD. 164 BOPD + 616 BWPD, Gravity 31°

S. W. Piney Woods Field - Shell No. 1 Ridgeway Mgmt.
Sec. 35-3N-2E Rankin Co.
Perfs. 21, 998 - 22,066 (Smk)
IP/Flowd. 33,500,000 CFGPD, Adj. ch. TP 5, 940 lbs.
H₂S 27%, CO₂ 2.3%

Southeast Corner Lake Field - Southeastern Resources No. 1 Magee
Sec. 7-2N-4W Wilkinson Co.
Perf. 7604 - 10 (McKittrick)
IP/PMPD. 23 BOPD + 116 BWPD Gravity 53°

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