

MISSISSIPPI GEOLOGICAL SOCIETY

VOLUME 47

NUMBER 1

SEPTEMBER, 1998

PRESIDENT'S LETTER

by *Rick L. Ericksen*

A brand new year for the MGS, a new Executive Board - but all familiar faces. This year ushers in uncertainty with the recent downward spiral of oil prices but a renewed interest in gas prospects has provided some solstice amongst the gloom and doom. In spite of this uncertainty it appears that those companies who have made the commitment to stay in the oil business have renewed their efforts by hiring petroleum geologists. Now for the bad news - our First Vice President, Mr. Dave Chastain, has become a victim of these oil companies and has accepted a job in Houston. I would formally like to congratulate Dave and wish him all of the best in a "real" job. Related to Dave leaving, the MGS now has an opening for First Vice President. I am pleased to announce that Mr. Stanley King, who is currently serving in the capacity as the Society's Treasurer, has volunteered to have his name placed in consideration as nominee for First Vice President to replace Dave. In addition, Mr. Ed Hollingsworth has accepted the nomination as Treasurer to replace Stanley. I want to thank both these two for coming forward and accepting the nominations and the responsibilities that are attendant to both. We will hold the formalized selection of nominees for these two positions at the Fall BBQ - so come prepared to vote and to eat some fine food.

We are most grateful to our Spring Fling sponsors who make possible a good time for all - when you see reps of the following sponsors, take the time to tell them how much we appreciate their support of the Society:

**Browning & Welch, First Environment,
Hughes-Rawls International, Jackson Log Library,
Location Sample Service, OWLCO, Paramount,
Pruet, Ridgeway Energy, Schlumberger,
Seismic Exchange, Spooner Energy,
Veritas DGC, and Western Atlas.**

The traditional Fall BBQ is scheduled to start at 4:30 pm on Friday, September 18, 1998 at the Masonic Lodge at the Agriculture and Forestry Museum located off of Lakeland Drive (please refer to the enclosed location map). In conjunction with the MGS Fall BBQ, the Eastern Gulf Producer Advisory Group and the

Eastern Gulf Region of the Petroleum Technology Transfer Council (PTTC) have scheduled a technology workshop entitled "3-D Seismic Technology." The workshop will be from 8:30 am to 3:00 pm and should prove to be of interest to most of us. A copy of the program and registration form can be found in this bulletin. Attendees of this workshop are encouraged to come join us at our BBQ for additional "geologic" discussions.

On a somber note, I would be remiss not to mention the passing of Wilbur Knight, a long time Honorary member of MGS, on May 21, 1998. Wil was a native of Laramie, Wyoming and was interred there at Greenhill Cemetery. He came to Jackson soon after the discovery of Tinsley Field in 1939 and was one of a very small group of members having over 50 years of membership with the MGS. Wilbur's survivors include his wife Betty, son Ernest E. Knight of Jackson, sister Eleanor Keefer of Denver, and one granddaughter. The MGS Board extends its sincerest sympathies to Wil's family and his many friends. (see page 4, *Wilbur H. Knight*)

Remember, the deadline for "grandfathering" as a registered professional geologist is December 31, 1998 - *don't procrastinate and wait to the last minute*. The application is available on the Internet at the following web site address:

<http://geology.deq.state.ms.us/geologyreg>

(continued on page 4)

***There will be no
MGS Professional Luncheon this
month. September is the first month in
the Society's program year which runs
from September through May. Tradition-
ally, MGS opens and closes each
program year with its Fall BBQ in
September and the Spring Fling in May.
We hope to see you there !***

MISSISSIPPI GEOLOGICAL SOCIETY 1997-1998

BOARD OF DIRECTORS

| | | |
|--|------------------------|--|
| President | Rick L. Ericksen | Mississippi Office of Geology..... (601) 961-5507 |
| 1st Vice President (Pres. Elect) | | |
| 2nd Vice President | John C. Marble | Mississippi Office of Geology..... (601) 354-6328 |
| Secretary | Michael Noone | First Environment |
| Treasurer | Stanley King | Jackson Log Library |
| Editor | Stephen L. Ingram..... | Mississippi Office of Geology (601) 354-6328 |

Committee Assignments

| | | |
|-------------------------------------|-------------------------------|---|
| Audiovisual | Todd Hines | Moon & Hines |
| GCS SEPM Miss. Representative | Stephen L. Ingram, Sr. | Mississippi Office of Geology..... (601) 354-6328 |
| Entertainment..... | Stan Thieling | Mississippi Office of Geology..... (601) 961-5519 |
| Environmental Section | Steve Jennings | Mississippi Office of Geology..... (601) 961-5205 |
| Field Trip & Seminars | | |
| Historian | Stanley King | Independent |
| Honorary Membership | Charles H. Williams, Jr. | Vaughey & Vaughey |

Boland Scholarship

| | | |
|-----------------|-------------------|-------------------------|
| Chairman | Jerry Zoble | Zoble Exploration |
| President | | |

AAPG Representatives

| | | |
|---|------------------------|---|
| Term to June 2000 | Jack Moody..... | Mississippi Office of Geology (601) 961-5522 |
| Term to June 2002 | Rick L. Ericksen | Mississippi Office of Geology..... (601) 961-5507 |
| Alternate, Term to 2002 | Todd Hines..... | Moon & Hines..... (601) 944-4700 |
| Chairman, DPA State Registration Cmt. ... | Rick L. Ericksen | Mississippi Office of Geology..... (601) 961-5507 |

MGS Meeting Schedules :

Officers Meetings

| |
|---------------------------|
| September 1 st |
| October 6 th |
| November 3 rd |
| December 1 st |
| January 5 th |
| February 2 nd |
| March 2 nd |
| April 6 th |
| May 4 th |

Professional Meetings

| | |
|----------------------------|------------------------------------|
| September 18 th | PTTC Workshop & Fall BBQ |
| October 13 th | Moncrief — Tuscaloosa Marine Shale |
| November 10 th | Rick Major — |
| December | Christmas Party |
| January 12 th | TBA |
| February 9 th | Professional Ethics — Bob Sellers |
| March 9 th | TBA |
| April 13 th | TBA |
| May | Spring Fling |

Honorary Members : (* — deceased)

| | |
|----------------------|----------------------|
| Esther Applin * | Winnie McGlammy * |
| Paul Applin * | Thomas McGlothlin * |
| Lawrence F. Boland * | Frederic F. Mellen * |
| Verne L. Culbertson | Maurice E. Meisse * |
| H. Leroy Francis * | Emil Monsour |
| David C. Harrell * | William H. Moore |
| Oleta R. Harrell * | Marvin E. Norman * |
| Dudley J. Hughes | Richard R. Priddy * |
| Urban B. Hughes * | Thurston C. Rader * |
| Wendell B. Johnson * | Donald Reese * |
| Walter P. Jones * | Baxter Smith * |
| Wilbur H. Knight* | Henry Toler * |
| Hilton L. Ladner * | Jerry Zoble |

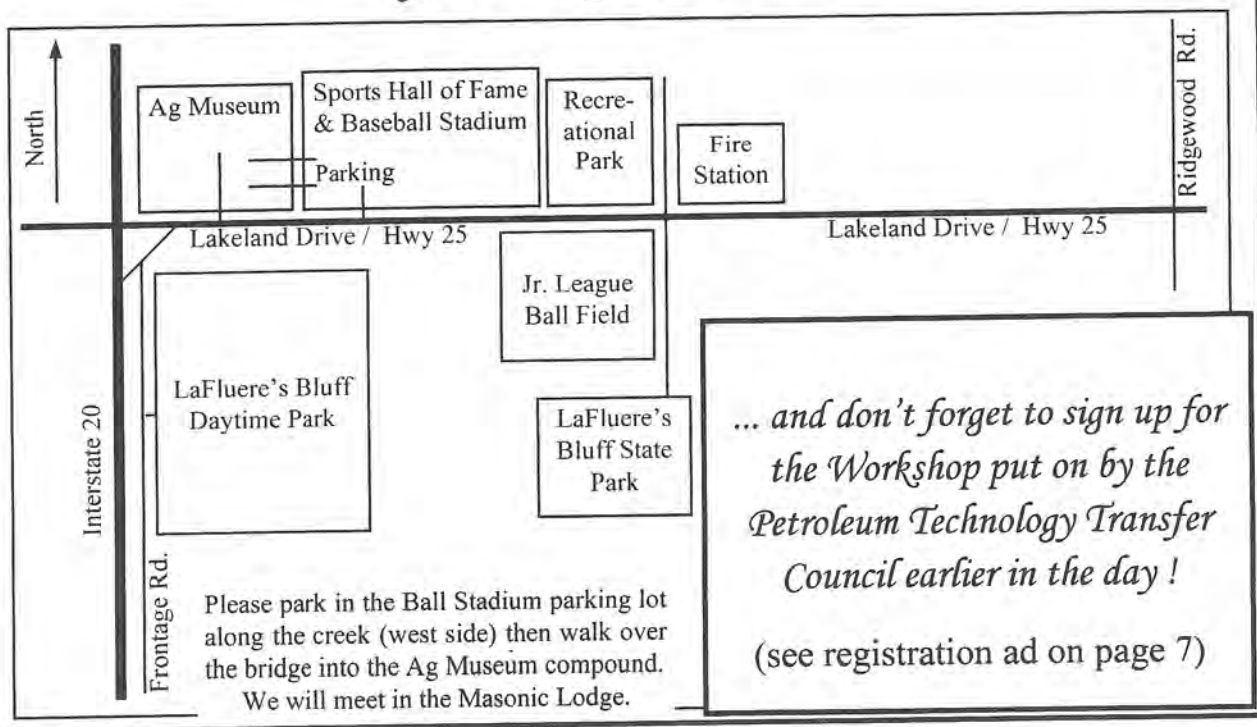
PAST PRESIDENTS

| | | | | | |
|-----------------|------------------------------------|-----------------|----------------------------------|-----------------|-------------------------------|
| 1939-1940 | Henry N. Toler | 1958-1959 | Charles Brown | 1979-1980 | Philip R. Reeves |
| 1940-1941 | Urban B. Hughes | 1959-1960 | M. F. Kirby | 1980-1981 | Marshall Kern |
| 1941-1942 | J. Tom McGlothlin | 1960-1961 | Rudy Ewing | 1981-1982 | Stephen Oivanki |
| 1942-1943 | Dave C. Harrell | 1961-1962 | Xavier M. Franscogna | 1982-1983 | James W. "Buddy" Twiner |
| 1943-1944 | K. K. "Bob" Spooner | 1962-1963 | Robert B. Ross | 1983-1984 | Charles H. Williams |
| 1944-1945 | L. R. McFarland | 1963-1964 | William A. Skees Marvin Oxley | 1984-1985 | C. Kip Ferns |
| 1945-1946 | J. B. Story | 1964-1965 | James F. Bollman | 1985-1986 | Steven S. Walkinshaw |
| 1946-1947 | Frederic F. Mellen | 1965-1966 | Sankey L. Blanton | 1986-1987 | J. R. "Bob" White |
| 1947-1948 | H. Lee Spyses Robert D. Sprague | 1966-1967 | Alan Jackson | 1987-1988 | Harry Spooner |
| 1948-1949 | Robert D. Sprague | 1967-1968 | Julius M. Ridgway | 1988-1989 | Stanley King |
| 1949-1950 | E. T. "Mike" Monsour | 1968-1969 | Edward D. Minihan | 1989-1990 | Stan Galicki |
| 1950-1951 | J. Tate Clark Charles E. Buck | 1969-1970 | Kevin E. Cahill | 1990-1991 | Jim Files |
| 1951-1952 | George W. Field | 1970-1971 | John Lancaster | 1991-1992 | Stephen L. Ingram, Sr. |
| 1952-1953 | James L. Martin, Jr. | 1971-1972 | Larry Boland | 1992-1993 | Michael Noone Stanley King |
| 1953-1954 | Wilbur H. Knight | 1972-1973 | Charles Barton | 1993-1994 | Brian Sims |
| 1954-1955 | A. Fd Blanton | 1973-1974 | Larry Walter | 1994-1995 | C. W. "Neil" Barnes |
| 1955-1956 | Gilbert A. Talley | 1974-1975 | W. E. "Gene" Taylor | 1995-1996 | Lester Aultman |
| 1956-1957 | Ben Ploch | 1975-1976 | Jerry E. Zoble | 1996-1997 | Jack S. Moody |
| 1957-1958 | Emil Monsour | 1976-1977 | P. David Cate | 1997-1998 | George B. Vockroth |
| | | 1977-1978 | Sarah Childress | | |
| | | 1978-1979 | Lester Aultman | | |

*You are cordially invited to attend
the Annual Mississippi Geological Society "Fall BBQ"
to be held on Thursday, September 18th
beginning at 4:30 p.m., meal begins at 6:00 p.m.
(Things wind down around 7:30 or 8:00 p.m.).*

*The barbeque supper will be held at the Agriculture &
Forestry Museum on Lakeland Drive here in Jackson.
Cost is \$10 per person — includes meal and drinks.*

*Please make your reservations by September 17th to ensure
your place by calling (601) 961-5500. This Social is open to
members and spouses, so please bring yours along
for this special time.*



Geology & Industry News Briefs :

President's Letter Continued:

The form can now be filled out on screen and then sent to your printer, alleviating the problem of trying to find a typewriter (they are quickly becoming obsolete).

If you miss the deadline for "grandfathering" you will be required to take ASBOG tests in order to become registered in Mississippi. The Board is currently in the process of developing comity with other states which have registration laws. Once these comity agreements are made they will allow you, if you are a RPG in Mississippi, to practice in another comity state without having to be registered there also.

In closing, we want to thank our past officers for their service this past year: President George Vockroth, Secretary Rodger Townsend, and Treasurer Steve Champlin.

See you at the Fall BBQ !

Rick L. Erickson

Editor's Note :

This May Bulletin is your first bulletin for the 1998-1999 MGS business year which runs from June through May. Nine (9) bulletins are published each year, coincident with our program year (September through May). Traditionally, the Society's professional activities take recess during the summer months (June - August). During the recess period, the Board of Directors met to work on programs and business matters for the current societal year (1998-1999).

George Vockroth supplied the following oil price averages for July 15-August 15, 1998 :

*West Texas Inter. - \$11.25
West Mississippi - \$11.00
East Mississippi - \$8.25*

*As of closing date, Aug.19 :
WTI \$10.50, WMs \$10.25,
and EMs \$7.50.*

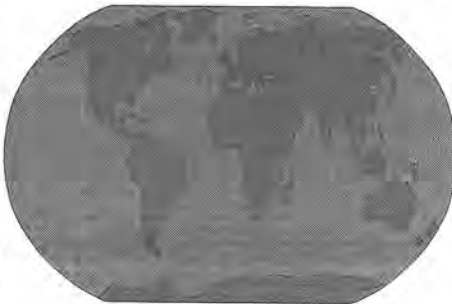
If you think this is bad, checkout the adjacent price info !

Vockroth's "Monthly Oil Price Chart" will continue next month.

This list of comparative prices (per barrel) of other commodities was furnished by Mike Noone (from Gannett News Service).

| | |
|----------------------------|------------------|
| <i>Gasoline</i> | <i>\$45</i> |
| <i>Coca-Coal</i> | <i>\$79</i> |
| <i>Evian Water</i> | <i>\$190</i> |
| <i>Budweiser</i> | <i>\$343</i> |
| <i>Wesson oil</i> | <i>\$435</i> |
| <i>Tanning oil</i> | <i>\$4,290</i> |
| <i>Visine eye drops</i> | <i>\$32,202</i> |
| <i>Flonase nasal spray</i> | <i>\$238,133</i> |

(? Bad Enough ? — see page 8)



Wilbur H. Knight

Wilbur H. Knight was born in Laramie, Wyoming - under the Big Sky! Wil gained his B.S. and M.A. in geology at the University of Wyoming from 1936-1941. Union Producing Company in Jackson, Mississippi hired him in 1941 and released him in 1942 to serve in the U.S. Army where he attained the rank of 1st Lieutenant in the infantry. In 1944, end of WWII, Union at Jackson rehired Wil as staff geologist. From 1947-1956, he served as District Geologist with his district covering the MAFL area and Georgia. After 13 years with Union Producing Company in Jackson, Wil Knight left Union to become Chief Geologist with Larco Drilling Company in Jackson. In 1959, after 3 years with Larco, Wil became an independent consulting petroleum geologist where he served the Jackson petroleum community until his passing in May 1998.

Wil was a member of several well known professional associations: Honorary Member MGS, GSA, AAPG, SEG, SIPES, and SPE. In addition, he was an active member with Mid-Continent O&G Association, the American Arbitration Association, and practiced as an expert witness before the Mississippi State Oil & Gas Board.

MGS Environmental Section Meeting Septmeber 15th

John Malachak, Ware LindFurlow / Aquatera, will speak on —

*"Environmental Assessment
& Ground Water Remediation :
Burgess Service Station,
Bucatanna, Mississippi."*

Special Note: This particular meeting will be held in the DEQ Air Quality Training Room from 11:45 to 1:00.

The Environmental Geology Section meets every third Tuesday of every odd month at Southport Mall in the DEQ Commission Hearing Room from 11:45 to 1:00.

Contact Steve Jennings 961-5205 or Pat Phillips (961-5213) for details.



SEPTEMBER 1998 MEETING SCHEDULE

| SUN | MON | TUE | WED | THU | FRI | SAT |
|-----|----------------------------------|---------------------------------|----------------------------------|--------------------------------|---------------------------------|-----|
| | | 1 MGS OFFICER- MEETING | 2 D & D OFFICER MEETING | 3 SIPES LUNCH MEETING | 4 | 5 |
| 6 | 7 | 8 | 9 D & D LUNCH MEETING | 10 | 11 | 12 |
| 13 | 14 MAPL EVENING MEETING | 15 MGS ENVIR SECTION | 16 O&G BD. | 17 | 18 MGS PTTC & FALL BBQ | 19 |
| 20 | 21 | 22 | 23 | 24 | 25 | 26 |

OTHER 1998 MEETINGS : *Annual Meetings*

GCAGS Oct 21-23; AAPG May 17-20; SEG Sep 13-18;
SPE Sept 27-30; AIPG Oct 4-8; AEG Oct.;

MGS ADVERTISING NOTICE !

The MGS Board has changed the Bulletin Advertising Year to coincide with the Society's business year which runs from June through May. Advertising had previously been run by calendar year. Due to this change, the 1999 advertising year will run from January 1999 through May 2000 (17 months). Your 1999 advertising will be prorated by adding half (1/2) the ad rate to the cost of the ad taken. MGS publishes nine bulletins per program year (September through May) with the February Bulletin published as our Directory Issue. Please submit your camera ready ad and payment to :

Mississippi Geological Society
P.O. Box 422
Jackson, MS 39205-0422

Make check payable to : **Mississippi Geological Society**
Price List: (** camera ready copy required)

| | 1999 Ad Year |
|--------------------------------------|-----------------|
| Run same as last year | |
| 1/2" x 3 1/2" | \$ 40 |
| 1" x 3 1/2" | \$ 75 |
| 1 3/4" x 2 1/2" ** | \$ 80 |
| 1 7/8" x 3 1/2" ** (business card) | \$100 |
| 1 3/4" x 4 1/2" ** | \$150 |
| 4 1/2" x 3 1/2" ** (quarter page).. | \$200 |
| 4 1/2" x 7 1/2" ** (half page) | \$300 |
| 9" x 7 1/2" ** (full page) | \$500 |

MISSISSIPPI GEOLOGICAL SOCIETY MEMBERSHIP APPLICATION / RENEWAL

PO BOX 422, JACKSON, MISSISSIPPI 39205-0422

Membership year is June through May

CIRCLE ONE OF THE FOLLOWING:

New Membership - Renewal - Student - Associate (Member & Associate - \$20/yr., Student - \$5/yr.)

LAST NAME: _____ FIRST NAME: _____ MI: _____

MAILING ADDRESS: _____

CITY: _____ STATE: _____ ZIP CODE: _____

Office Phone : _____ Home Phone : _____

E-mail Address: _____ FAX: _____

College/University Attended: _____

Degree(s) Obtained, and year(s) awarded: _____

List Professional Associations, Certification, & License: _____

APPLICANT'S SIGNATURE: _____

MGS YEAR-END STATEMENT 1997-98

MAY 31, 1998

REVENUES

| | |
|-----------------------------------|------------|
| Membership | \$3,565.00 |
| Advertising | \$5,210.00 |
| Monthly Lunch receipts | \$2,395.00 |
| Fall BBQ receipts | \$815.00 |
| Fall BBQ sponsorship | \$875.00 |
| Christmas Party Receipts | \$790.00 |
| Christmas Party sponsorship | \$0.00 |
| Cotton Valley Sym. book | \$363.50 |
| CV Sym. refunds for rentals | \$80.00 |
| Earth Ent. Sales | \$1,845.00 |
| Spring Fling attendance | \$1,200.00 |
| Spring Fling sponsorship | \$1,290.00 |
| Boland Scholarship Donations | \$1,600.00 |
| Interest earned Money Market Acc. | \$356.35 |

Total revenues **\$20,384.85**

EXPENSES

| | |
|---------------------------------------|------------|
| Miss. Acad. of Sc Award | \$200.00 |
| Advertising (1997 GCAGS) | \$250.00 |
| Monthly Lunch | \$2,597.18 |
| Name tags | \$7.47 |
| Boland Scholarship | \$1,600.00 |
| Bulletin printing | \$4,788.14 |
| Postage (bulletin & permit) | \$582.00 |
| PO Box Rental | \$40.00 |
| Officers lunch | \$515.76 |
| Bulk Mail Permit | \$85.00 |
| Fall BBQ | \$871.04 |
| Christmas Party | \$1,041.51 |
| Spring Fling | \$1,503.02 |
| Professional Geological Reg. Donation | \$2,500.00 |
| Postage (other) | \$32.00 |
| Stationary | \$133.75 |
| Speaker's plaques | \$605.02 |
| Environ. Speaker meals and expnses | \$39.90 |
| Tax Prep. MGS | \$150.00 |
| Tax Prep. Boland Scholor | \$500.00 |
| Labels | \$360.00 |
| Deposit corrections | (\$5.00) |
| Bad checks | \$30.00 |

Total expenses **\$18,426.79**

| | | |
|--------------------------------|---------------|-------------------|
| REVENUES | \$20,384.85 | |
| EXPENSES | (\$18,426.79) | |
| NET OPERATING GAIN/LOSS | | \$1,958.06 |

| | |
|--|-------------|
| Beginning Account Balance Checking | \$11,584.72 |
| Cash box change | \$0.00 |
| Beginning Account Balance Money Market | \$14,224.82 |

Beginning Cash Balance **\$25,809.54**

| | |
|-------------------------------------|-------------|
| Ending Account Balance Checking | \$13,136.61 |
| Cash box change | \$50.00 |
| Ending Account Balance Money Market | \$14,581.17 |

Ending Cash Balance **\$27,767.78**

YEAR TO DATE OPERATING GAIN/LOSS = **\$1,958.24**

Stephen D. Champlin
MGS Treasurer

**EASTERN GULF REGION
PETROLEUM TECHNOLOGY TRANSFER COUNCIL**

Announces a Technology Workshop

**Friday, September 18, 1998
8:30 a.m. — 3:00 p.m.**

**Capital Club, Capital Towers, 19th Floor
125 South Congress Street
Jackson, Mississippi 39201
Telephone: (601) 969-7101**

This PTTC workshop is
being held in conjunction
with the MGS Fall BBQ

— see page 3 for details
on the BBQ —

The Eastern Gulf Producer Advisory Group and the Eastern Gulf Region of the Petroleum Technology Transfer Council invite oil and gas producing and related companies operating in Mississippi, Alabama, and Florida to participate in a Technology Workshop entitled, "*3-D Seismic Technology*." The purpose of the workshop is to transfer recent research advances in 3-D seismic technology to producers operating in the Eastern Gulf Region to facilitate oil and natural gas development in the area.

PROGRAM

| | |
|---------------|--|
| 8:30 - 8:45 | Welcome and Introduction —Brian Sims, PAG Chair |
| 8:45 - 10:15 | 3-D Seismic Technology —Bruce Hart, New Mexico Institute of Mining and Technology, Socorro, NM |
| 10:15 - 10:30 | BREAK |
| 10:30 - 12:00 | 3-D Seismic Technology —(continued) |
| 12:00 - 1:00 | LUNCH |
| 1:00 - 2:30 | Main Pass 299 Salt Dome, Gulf of Mexico —Richard A. Eisenberg (Invited), Chevron USA Production Co. |
| 2:30 - 3:00 | Summary —Ernest A. Mancini, University of Alabama |

It is essential that we have an accurate accounting of those who plan to attend and participate in the workshop. Therefore, please complete and return the attached registration to us by September 11, 1998. We look forward to your participation.

WORKSHOP REGISTRATION FORM — September 18, 1998

Name: _____
Last
First
Initial

Preferred Name on Badge: _____

Affiliation: _____

Mailing Address: _____

City: _____ State: _____ Zip: _____

Telephone: _____ Fax: _____ Email: _____

Please complete form and return by mail, Fax, or Email transmittal to: **BRIAN PANETTA**

Department of Geology, University of Alabama, Box 870338, Tuscaloosa, AL 35487-0338
 Telephone: (205) 348-6569 Fax: (205) 348-0818 Email: bpanetta@wgs.geo.ua.edu

There will be a \$25.00 fee to attend this workshop, payable by check only, to the Petroleum Technology Transfer Council (PTTC) on September 18, 1998, at the workshop.

PLEASE RETURN REGISTRATION FORM NO LATER THAN September 11, 1998.

1998 GCAGS

48th Annual Convention

**Bridging the Gulf:
To New Growth, To The New Millennium**
October 21-23, 1998
Corpus Christi, Texas

For details contact : (512) 882-5750

SEG 1998

International Exposition & 68th Annual Meeting

UNMASK the Depths
September 13-18, 1998
New Orleans, Louisiana

For more info:

www.seg.org/seg98
tel 918.497-5500
fax 918.497-5557

8th Annual Southern States Environmental Conference & Exhibition

September 22-24, 1998

Mississippi Coast Coliseum and convention Center,
Biloxi, Mississippi

For more information contact MISSTAP at:
601.325-8067 or 601.325-8069
of e-mail lindig@che.msstate.edu

Geological Survey of Alabama

150 YEARS 1848-1998

Tuesday, September 15, 1998
**Revitalizing Gilberton Oil Field :
Characterization of Fractured Chalk and
Glaucconitic Sandstone Reservoirs
in an Extensional Fault System**

For details call 205.349-2852

MGS Officer and Society Historian Stanley King made a quick shopping trip on Thursday, August 13th (if that's not an Omen, I don't know what is !) to follow-up on the price comparison of household commodities. He visited local businesses — Jitney Jungle, a local beverage store, and McRaes. Stanley then converted product quantities to the per/barrel costs listed below. To make matters worse, Stanley converted the price of a barrel of crude oil at \$12.50, then converted it to a cost per/ounce so as to make a price comparison of crude oil to these household commodities. The price per ounce of crude oil at \$12.50/ barrel is — \$.002 or 2 tenths of a cent per ounce.

| ITEM | BRAND | COST PER BBL. |
|-------------------------|--------------------|---------------|
| Alcohol | store brand | \$ 332.64 |
| Antacid | Pepto Bismol | 2,009.84 |
| Auto protectant | Finish 2001 | 2,415.84 |
| Baby formula | Isomil | 1,401.90 |
| Baby oil | Johnson | 1,148.16 |
| Beer | Bud Lite | 309.49 |
| Buttermilk | Luvel | 233.52 |
| Charcoal lighter | Gulflite | 1,274.88 |
| Coca Cola | | 112.00 |
| Cooking oil | Crisco | 267.68 |
| Cologne, Men's | Realm | 189,741.18 |
| Cologne, Women's | Opium | 215,040.00 |
| | Charlie | 12,074.50 |
| Contact Solution | Bausch & Lomb | 3,131.52 |
| Cough Syrup | Vick's Nyquil | 2,862.24 |
| | Robitussin | 4,831.68 |
| Detergent, laundry dish | Tide liquid | 408.04 |
| | Dawn | 535.68 |
| Fruit drink | Fruitopia | 299.04 |
| Fruit punch | Hawaiian Punch | 117.18 |
| Hand/body lotion | Aveeno | 3,875.20 |
| Household cleaners | Mop and Glo | 838.32 |
| | Pine Sol | 401.86 |
| Window cleaner | Windex | 846.72 |
| Hydrogen peroxide | House brand | 231.84 |
| Ketchup | Heinz | 401.86 |
| Milk | Luvel | 129.78 |
| Motor oil | Texaco | 216.72 |
| Mouthwash | Scope | 1,205.12 |
| Nail polish | Maybelline | 3,096.58 |
| Olive oil | Pompeii | 2,808.96 |
| Orange juice carton | Minute maid | 239.40 |
| Perfume | Safari (R. Lauren) | 2,472,960.00 |
| Salad dressing | Kraft | 937.44 |
| Sesame oil | | 2,617.44 |
| Shampoo | Head & Shoulders | 1,415.68 |
| | Pantene Pro-V | |
| Shoe polish | Kiwi | 7,203.84 |
| Shrimp boil | Zatarain's | 1,475.04 |
| Soy sauce | Lachoy | 913.92 |
| Sport drink | Gatorade | 216.72 |
| Syrup, maple | Aunt Jemima | 1,205.12 |
| Tequila | Torodo | 1,504.53 |
| Vinegar | house brand | 149.52 |
| Water, bottled | Kentwood | 979.47 |
| | Perrier | 1,344.00 |
| Worcestershire | Lee & perrin | 1,451.52 |

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Birmingham, Alabama • Jackson, Mississippi

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- Unconsolidated Core Analysis
- Advanced Petrophysical Rock Properties
- Reservoir Flow Studies
- Formation Damage Assessment
- Completion Recommendations
- Reservoir Description
- Reservoir Geology and Petrographic Services
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Mesozoic-Paleozoic Producing Areas of Mississippi and Alabama, Volume II. Maps and producing data on 146 fields, in ring binder, 361 p., 1963-1980.
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Mesozoic-Paleozoic Producing Areas of Mississippi and Alabama, Volume III. Includes discovery, structural, and lithologic summaries along with reservoir parameters and production data on 55 selected fields. Each field summary is accompanied by a structure map and a type log. In three-ring binder, 166 p., December, 1986.
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Supplement for Volume III. Contains information, structure contour maps, and type logs on 19 fields—six in Alabama, two in Florida, and eleven in Mississippi. 45 p., 1992, heavy stock, punched for binder.
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Oil in the Deep South, A History of the Oil Business in Mississippi, Alabama, and Florida, 1859-1945, by Dudley J. Hughes. A statistical and chronological summary of the evolution of the petroleum business in the southeastern United States. Includes personal stories of the companies, entrepreneurs, promoters, investors and workers who played major roles in the development of the oil business from its inception in the early 1900s to 1945. Hardbound book, 267 p., 1993.
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Upper Cretaceous Outcrops, Northeast Mississippi and

West Central Alabama, 14th Field Trip, 29 p., May, 1959.
 MGS 101 G\$4.00

Recent Sedimentation on Horn Island, Mississippi and Stratigraphy of the Quaternary and Upper Tertiary of the Pasacoula Valley, Mississippi, 10th Annual GCAGS Meeting, 24 p., 1960.
 MGS 103G\$2.50

The Paleozoics of Northwest Arkansas, 16th Field Trip, 48 p., May, 1962.
 MGS 104G\$5.00

Mississippian Rocks of the Black Warrior Basin, 17th Field Trip, 79 p., April, 1978.
 MGS 105G\$8.00

Tertiary and Upper Cretaceous Depositional Environments, Central Mississippi and West-Central 33rd Annual GCAGS Meeting, 40 p., 1983.
 MGS 106G\$7.50

The Cretaceous Chalk of the Starkville Area, Northeast Mississippi, by Ernest E. Russell and Stewart W. Welch, co-authors. Contains articles and road log for two-day field

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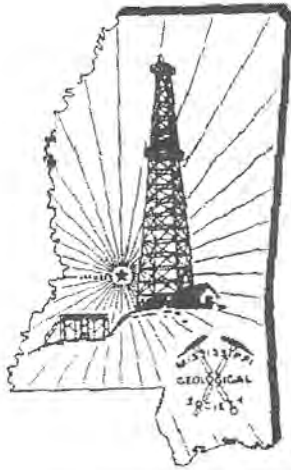
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VOLUME 47

NUMBER 2

OCTOBER, 1998

PRESIDENT'S LETTER

by *Rick L. Ericksen*

The Fall BBQ was a success—lots of good folks and plenty of good food. I would like to thank all who attended and RSVP'd this event. It helped immensely in assuring that we had enough food and drink for everyone and as always, we are particularly indebted to our gracious sponsors whose support made the BBQ the success it was. Our sponsors were —

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I would also like to extend thanks to Stanley King, Mike Noone, John Marble, and Steve Ingram for all of their help in putting this event together.

At this time I would like to congratulate, both Stanley King and Ed Hollingsworth who were elected 1st Vice President and Treasurer, respectively. Our former 1st VP, Dave Chastain resigned to accept a position with Fina in Houston and both Stanley and Ed came forward to accept the need and responsibility attendant to the positions and the Society. Again, congratulations.

John Marble, our 2nd Vice President and Program Chairman, has apparently been very busy lining up speakers for our noon luncheons. Our first speaker will be James Moncrief, who will be speaking on the oil potential of the Marine Tuscaloosa Shale, please see notice in the adjacent column. The noon luncheon will be held at the Capitol Club, starting at 11:30 AM, Tuesday, October 13. Please RSVP by calling 961-5500 prior to the meeting.

The MGS Environmental Section, now co-chaired by MGS members Steve Jennings and Pat Phillips, held its first meeting on September 15. Mr. John Malanchak gave an informative talk on the environmental assessment & ground water remediation at the Burgess Service Station, Buckatunna, Mississippi. Please stay

tuned for upcoming presentations sponsored under the auspices of this section.

Now for something completely different. I am not particularly inclined to use buzz words but I am personally encouraging all MGS members to (continued on page 3)

MGS Professional Luncheon ***Topic & Speaker — October 13th***

An Unproven, Unconventional Seven Billion Barrel Oil Resource — the Tuscaloosa Marine Shale presented by: *James E. Moncrief*

*The meeting will be held at the Capitol Club
October 13th from 11:30 to 1:00 p.m.*

The Gulf Coast region of the United States is considered a mature producing province. In order to maintain and/or increase future hydrocarbon production, future trends must include the research and evaluation of untested ideas about non-conventional hydrocarbon occurrences. Many studies have been conducted on hydrocarbon production associated with shale formations, e.g. the Bakken Shale, Williston Basin; Antrim Shale, Michigan Basin; etc. However, no published information is available relative to the lithological characteristics or existence of hydrocarbons in the Tuscaloosa marine shale.

The marine shale section lies between sands of the upper and lower Tuscaloosa sections and varies in thickness from 500 ft (152.4 m) in southwestern Mississippi to more than 800 ft (243.8 m) in the south part of the Florida Parishes, southeastern Louisiana. The primary zone of interest, a high log resistivity (5 ohms) zone at the base of the above referenced shale section, varies in thickness from zero to 325 ft (99 m) over the area and is found at the shallowest depth of approximately 10,000 ft (3048 m) in the study area. Two wells are known to have (continued page 3)

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September 1st
 October 6th
 November 3rd
 December 1st
 January 5th
 February 2nd
 March 2nd
 April 6th
 May 4th

Professional Meetings

September 18th PTTC Workshop & Fall BBQ
 October 13th Moncrief — Tuscaloosa Marine Shale
 November 10th Rick Major-GeoChem Tracers-Dolom
 December Christmas Party
 January 12th TBA
 February 9th Professional Ethics — Bob Sellers
 March 9th TBA
 April 13th TBA
 May Spring Fling & Officer Elections

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President's Letter Continued:

become proactive in matters which affect their careers in geology. For too long many of us have sat back and let the other guy get involved or second guessed what may have been going on without becoming involved. Involvement assures that the best interests of our profession are at least expressed and heard. As a result, by remaining silent or uninvolved, jobs which are best suited to the training and experience of geologists are now being done by "other" professionals who lack the formal training to do so (see article on "suggested task list", beginning on page 5).

Along those lines MGS has formed a new committee - the Water Resources Advisory Committee. Our legislature, in 1995, implemented an Act creating the "Mississippi Water Resources Advisory Council." Its charge is to make recommendations to the state legislature concerning the water resources of the state. Unfortunately, the legislated membership of this council conspicuously lacks geologists and geological organizations. It has legislated representation from many governmental bodies and even a voting member from the Mississippi Engineering Society - but not MGS. The issue of the water resources of this state is an issue of interest to us as geologists and also as citizens. The MGS's Water Resources Advisory Committee is comprised of the following individuals: our past President, George Vockroth, Harold Karges, and Mike Noone. We are currently participating with this council as a non-voting guest member and have had a representative at a meeting which was recently held at the end of September. If you have a personal/professional interest in this area and would like to become "involved," please contact any one of the members of this committee or me.

Hope to see you all at our October noon meeting - until then.

Rick L. Ericksen

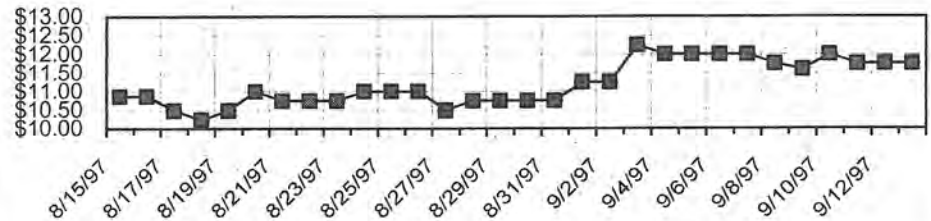


Monthly Oil Price Chart

George Vockroth has supplied the following daily oil price data to illustrate the degree of daily price fluctuations

Note: East Mississippi is \$3 below WTI; West Mississippi is \$.50 below WTI

West Texas Intermediate Crude



Speaker's Topic Continued :

produced from the marine shale in southeastern Louisiana with one having produced over 20,000 barrels of oil in the last nineteen years. Preliminary evaluations indicate that the Tuscaloosa marine shale may contain a potential reserve of about 7 billion barrels of oil. Horizontal drilling could maximize production and minimize environmental impacts.

Speaker & Topic Info :

The above abstract was co-authored by: Chacko J. John, Bobby L. Jones, James E. Moncrief, Reed Bourgeois, and Brian J. Harder.

Biography - James E. Moncrief

- Born in Vivian, Louisiana.
- 1952-54 — BS&MS Geology, LSU
- 1954- Tidewater Associated Oil Co. (later Getty Oil), regional exploration and well-site geologist.
- 1955-58 — Austral Oil Co., South Louisiana regional exploration mapping and well-site geology; then Houston, TX prospect evaluation for almost every geological province for the USA; then District Geologist in Lafayette, LA.
- 1959 - started Monrich Oil & Gas
- 1969 - President, Cyclops Oil & Gas
- Member - AAPG, API, HGS, & LGS

Editor's Apologies :

We got off to a rough start! My apologies for those errors in the September Bulletin and Announcement. We have a desk-top publishing format for our bulletin/newsletter — which means the editor types the text. Unfortunately, my editorial procedures broke down —

I blew it!

This October Bulletin is your second of 9 newsletters for the 1998-1999 MGS program year. We are in our membership and advertising renewal campaigns at this time. The Directory issue will be published around the first of the year, so we need your renewal in before December 10th in order to get it in the directory.

MGS Environmental Section

The Environmental Geology Section meets every third Tuesday of every odd month at Southport Mall in the DEQ Commission Hearing Room from 11:45 to 1:00.

Our next meeting will be in November. Contact Pat Phillips (961-5213) or Steve Jennings (961-5205) for details.

OCTOBER 1998 MEETING SCHEDULE

SUN MON TUE WED THU FRI SAT

| | | | | | | |
|----|----------------------------|----------------------------|---------------------------|---------------------------|----|----|
| | | | | 1 | 2 | 3 |
| | | | | SIPES LUNCH MEETING | | |
| 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | | MGS OFFICER- MEETING | D & D LUNCH MEETING | | | |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| | MAPL EVENING MEETING | MGS LUNCH MEETING | | | | |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| | | | O&G BD. | | | |
| 25 | 26 | 27 | 28 | 29 | 30 | 31 |

OTHER 1998 MEETINGS : Annual Meetings

GCAGS Oct 21-23; AAPG May 17-20; SEG ;
 SPE ; AIPG Oct 4-8; AEG Oct.;
 SPWLA ; MIPRO Nov. Mid Cont. Oct

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**New Categories For
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The American Institute of Professional Geologists (AIPG) now has 5 categories of membership. In addition to the longstanding 1) Certified Professional Geologist (CPG) where certification by education, experience, and peer review is by AIPG, there is now a 2) Registered Member where state registration(s), such as Mississippi now has, provides the qualifying requirements with sponsorship. Additionally, there is a 3) Member category for those without experience requirement(s). Also, there is a 4) Student membership for those currently enrolled in a degree program and an 5) Associate membership for non-geologists. Membership application fees are \$50 for the CPG, \$30 for both the Registered Member and Member, and \$5 for the Student and Associate categories. Annual membership dues are \$85 for the CPG, \$60 for both the Registered Member and Member, \$15 for the Student, and \$50 for the Associate categories. There are additional Section dues for each category, except the student membership. The Mississippi Section Dues are currently \$15. The AIPG was founded in order to promote the profession of geology, rather than as a technical organization. Join and help promote the profession. For further information contact any AIPG member, Mississippi Section officers (Darrel Schmitz-President; Jack Henderson-Vice President; Harold Karges-Secretary/Treasurer), or the national headquarters —

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Phone 303-431-0831; E-mail aipg@aipg.com

**Darrel W. Schmitz, President
 Mississippi Section, AIPG**

EDITOR'S NOTE : The practice of petroleum geology is explicitly exempt in the 1997 Geologic Practice Act.

Never the less, some of us believe that petroleum geologists would be well served to register during the grandfather phase, which ends December 31, 1998. Those who apply after this date will be required to take and pass the ASBOG exams given by the Board of Geology.

Here's my argument : ---

As one of many who expected to make a life-long career practicing petroleum geology, I can say emphatically that no one can be certain of this prospect anymore. A number of us have taken-up new areas of geologic practice in the environmental industry, government, and academia. Others have left the profession altogether. I believe it is in the interest of all practitioners, including those exempt, to register; thereby, protecting their ability to extend their practice into other areas of applied geology, should the downturn in petroleum continue -- as obviously it has.

I have often thought that once attorneys see that there's money to be made in many of the old oil fields in the state, environmental lawsuits would dramatically increase -- and there are one or two such situations occurring here in Mississippi, at this printing. Since we have apparently arrived at the beginning of such lawsuits, registration will become an obvious asset to those in the petroleum practice. These lawsuits will focus more and more on the environmental aspects associated with contamination of soils and fresh water resources, not to forget NORM. Since groundwater resources, as well as soils, are in the domain of environmental law and practice, a "registered" expert witness giving testimony in such suits would fare better in court -- we have knowledge of a recent case where a practicing engineer was disqualified from giving expert testimony in a civil suit because the data he was testifying to was geologic in nature. It would be expected that a good attorney could successfully challenge an "unregistered" petroleum geologist wishing to give expert testimony on the environmental aspects of cases involving petroleum oil fields where contamination of fresh water resources may have occurred.

With the continued downturn of the petroleum industry and the prospect that such lawsuits could increase in the state, more of us will be forced to consider expanding our practice (out of the petroleum sector) into the environmental practice (which, here, has a petroleum link). To do that, you'll have to apply for "registration" -- and, better now than having to take the exam later ! On the business side of geology, this is a positive note. The prospect of environmental lawsuits involving producing fields actually represents potential income for practicing geologists. Expanding your practice to include the environmental industry could be a cash incentive for the years ahead. The cost for registration is nominal, about a 1/2 days wages. But -- you must apply now, before the grandfather deadline of December 31, 1998, to avoid taking the exam.

So, from this argument, it is my perspective that it is in your personal interest to apply for registration as a Registered Professional Geologist before the deadline. Those who do not register will effectively limit their ability to practice in areas for which they are well suited.

In other matters, the following table (task list, next 3 pages) was developed by the Mississippi State Board of Registered Professional Geologists as a suggested guideline for the practice of geology in the State. The table should be of interest to all MGS members in that it clearly associates formal geologic education and training, and experience with specific tasks. To my knowledge, this is the first such list published in the MGS bulletin. Much credit goes to Dr. Dave Patrick -- University of Southern Mississippi, for heading up the committee which developed the guideline. Representatives from our other academic institutions (Dr. Darrel Schmitz - Mississippi State, and Charles Swann - Mississippi Mineral Resource Institute @ University of Mississippi) were involved in the development and review process. Not to forget Winston Russell - Environmental Management Services and Tony Stuart - Forrest Energy. I should note that task list item #5 - Well Logging, is not meant to exclude those petroleum engineers which are trained in well log analysis. Since petroleum geology is exempt, log analysis by petroleum practitioners was not taken into account here.

This table was mailed in correspondence from the Board of Geology to affected parties in an information package. In response, there has been both praise and uproar. For most of us, the task list will help ensure a baseline for entry-level graduates going into the workforce. In addition, the task list clarifies, based on formal education and experience, what geologists are trained for vs. that of the civil engineering curriculum (civil engineering graduates rarely take as much as 3 hours of geology course work). Even so, there are a few entities within the environmental engineering community that oppose the suggested task list. Apparently a number of them are involved with the writing, sealing and stamping of geologic studies/reports which they have been submitting to clients which include numerous state and private agencies. This problem stems from not having geological registration in place during the last 20 years when environmental law became a driving force (if you remember, there was an unsuccessful attempt to pass registration back in the late 1970's). No clear boundaries existed prior to the inception of the Mississippi State Board of Registered Professional Geologists in 1997. The task list attempts to establish "legally defensible" guidelines between geologic practitioners and civil engineers -- something that will serve both well when environmental lawsuits threaten. After all, the over-riding purpose of the Geologic Practice Act of 1997 is to protect the public's health, safety and welfare by assuring that geology is done by those qualified by formal education and training.

Stephen L. Ingram, Sr.
Editor, MGS

Mississippi State Board of Registration of Professional Geologists Geologic Task Listing

This listing provides a summary of tasks and projects which the Mississippi State Board of Registered Professional Geologists has recommended to municipalities, county and state agencies, and other sectors which may be impacted by the Geologic Practice Act of 1997. This listing is a recommendation on those tasks which may need geologic input by a registered professional geologist and/or the supervision of a registered professional geologist. The tasks are divided into three categories, each of which are described below:

- 1) **RPG Certification Required**
These tasks are mostly geological in nature and require certification by a geologist registered in Mississippi.
- 2) **RPG and PE Certification Required**
These tasks include both geological consultation and engineering design and thus should be jointly certified by a geologist and engineer registered in Mississippi.
- 3) **RPG or PE Certification Required**
These tasks can be performed either by a qualified geologist or engineer. A qualified professional from either discipline should certify these reports.

This task listing is nearly identical to a listing which was published by the Alabama Board for the Licensure of Professional Geologists earlier this year in the Alabama Geological Society's Bulletin.

| TASK | | RPG Certification | RPG and PE Certifications Required | RPG or PE Certification Required |
|------|--|-------------------|------------------------------------|--|
| 1 | Groundwater Assessment Plans | x | | |
| 2 | Groundwater Monitoring Plans | x | | |
| 3 | Groundwater Assessment Reports | x | | |
| 4 | Groundwater Corrective Action Plans | x | | |
| 5 | Well Logging | | | |
| | Monitoring wells | x | | |
| | Geologic and Hydrogeologic Logging | x | | |
| | Geotechnical Logging (unified soil class system) | | | x |
| | Public Water Supply Wells/Potable Wells | | | |
| | Geologic Log | x | | |
| | Drilling Log | | | x (or Certified Water Well Driller) |
| 6 | Well Head Protection Plans | | | x |
| 7 | Well Head Protection Delineations | x | | |
| | (Source Water Assessment Delineation) | x | | |
| 8 | Potable Well Logging - Public Wells | x | | |
| 9 | Hydrogeologic Site Evaluations | x | | |
| 10 | Preliminary Site Assessments (Phase I Real Estate, Etc.) | | | x |

| | TASK | RPG Certification | RPG and PE Certifications Required | RPG or PE Certification Required |
|----|--|-------------------|------------------------------------|----------------------------------|
| 11 | Permit Applications | | | |
| | RCRA | | x | |
| | Solid Waste | | x | |
| | NPDES/POTW | | x | |
| | Lagoon Hydrogeologic Site Evaluations | x | | |
| | Land Application Hydrogeologic Site Evaluations | x | | |
| | Storm Water | | | x |
| | Sludge | | x | |
| | Public Water | | x | |
| | Land Fill | | x | |
| | UIC | | x | |
| | Mining | x | | |
| 12 | Risk Assessment Plans and Reports | | x | |
| 13 | Closure Assessment Reports | | | |
| | UST and other tanks | | | x |
| | Lagoons | | x | |
| | Pits and Ponds | | x | |
| | Land Fills and land treatment units | | x | |
| 14 | Well Abandonment Plans | | | |
| | Monitoring Wells | | | x |
| | Public Water Supply Wells | | x | |
| 15 | Preliminary and Secondary Investigations (contaminant fate and transport) | x | | |
| 16 | Geologic and Hydrogeologic Logging of Wells | x | | |
| 17 | Geologic and Hydrogeological Cross Section And Associated Interpretation | x | | |
| 18 | Geologic and Hydrogeologic Surveys and Reports | x | | |
| 19 | Interpretation of geologic formations and aquifers from Regional and Site data | x | | |
| 20 | Interpretation of uppermost aquifer from well logs | x | | |
| 21 | Interpretation of confined or unconfined aquifer from well logs | x | | |
| 22 | Evaluation of perched groundwater conditions using well logs | x | | |
| 23 | Surficial geologic mapping | x | | |
| 24 | Subsurface geologic mapping & Correlation | x | | |
| 25 | Mineralogical & Petrological Evaluations | x | | |

| | TASK | RPG Certification | RPG and PE Certifications Required | RPG or PE Certification Required |
|----|--|-------------------|------------------------------------|----------------------------------|
| 26 | Sedimentation and Sediment Geochemistry | x | | |
| 27 | Geophysical Log Interpretation | x | | |
| 28 | Potentiometric Surface Mapping | | | x |
| 29 | Flow Net Construction and Analysis | | | x |
| 30 | Pump Test Analysis | | | x |
| 31 | Slug Test Analysis | | | x |
| 32 | Groundwater Sampling and Analysis Plans | | | x |
| 33 | Groundwater Computer Modeling | | | x |
| 34 | Contaminant Isocontour Mapping | x | | |
| 35 | Laboratory Permeability Testing | | | x |
| 36 | Slug or Pump Testing of Monitoring Wells in the Field | | | x |
| 37 | Interpretation of Groundwater Quality Data | | | x |
| 38 | Corrective Action Effectiveness Reports | | | x |
| 39 | Water Well Inventories | | | x |
| 40 | Land Use Determinations | | | x |
| 41 | Receptor Surveys | | | x |
| 42 | Monitor Well Sampling (water level measurements, collection of analytical samples) | | | x |

Remember, the deadline for "grandfathering" as a registered professional geologist (RPG), or as a geologist in training (GIT) is December 31, 1998 - *don't procrastinate and wait to the last minute.*

Application fee is \$95.00 for RPG and \$50.00 for GIT. If registration is approved the biennial fee is \$130.00 for the RPG and \$100 for GIT. Costs for the seal (rubber stamp or embosser) is around \$35.00.

The application is available on the Internet at the following web site address:

<http://geology.deq.state.ms.us/geologyreg>

The form can now be filled out on screen and then sent to your printer, alleviating the problem of trying to find a typewriter (they are quickly becoming obsolete).

Applications will be available at all MGS meetings. Also, you can contact the Mississippi State Board of Registered Professional Geologists at PO Box 22742, Jackson, MS 39225-2742 or by calling 601. 961-5507.

If you miss the deadline for "grandfathering" you will be required to take the ASBOG tests in order to become registered in Mississippi

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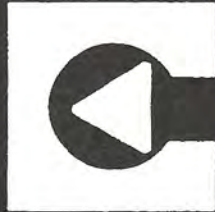


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SPECIAL VOLUMES

Wilcox Fields of Southwest Mississippi. Maps and production data on 171 fields, in ring binder, 350p., 1969.
 MGS 001SV\$28.00

Mesozoic-Paleozoic Producing Areas of Mississippi and Alabama, Volume II. Maps and producing data on 146 fields, in ring binder, 361 p., 1963-1980.
 MGS 003SV\$50.00

Volume II In Separate Sections:
Volume II, Includes Supplement 1. Maps and Producing data on 77 fields, 143 p., 1963.
 MGS 004SV\$15.00

Volume II, Supplements 2 through 7. Maps and producing data on 35 fields, 110 p., 1964-1972.
 MGS 005SV\$25.00

Volume II, Supplement 8. Maps and producing data on 34 fields, 108 p., 1980.
 MGS 006SV\$25.00

Mesozoic-Paleozoic Producing Areas of Mississippi and Alabama, Volume III. Includes discovery, structural, and lithologic summaries along with reservoir parameters and production data on 55 selected fields. Each field summary is accompanied by a structure map and a type log. In three-ring binder, 166 p., December, 1986.
 MGS 007SV\$50.00

Supplement for Volume III. Contains information, structure contour maps, and type logs on 19 fields—six in Alabama, two in Florida, and eleven in Mississippi. 45 p., 1992, heavy stock, punched for binder.
 MGS 008SV\$25.00

Oil in the Deep South. A History of the Oil Business in Mississippi, Alabama, and Florida, 1859-1945, by Dudley J. Hughes. A statistical and chronological summary of the evolution of the petroleum business in the southeastern United States. Includes personal stories of the companies, entrepreneurs, promoters, investors and workers who played major roles in the development of the oil business from its inception in the early 1900s to 1945. Hardbound book, 267 p., 1993.
 MGS 020SV\$35.00

FIELD TRIP GUIDEBOOKS
Upper Cretaceous Outcrops, Northeast Mississippi and

West Central Alabama, 14th Field Trip, 29 p., May, 1959.
 MGS 101 G\$4.00

Recent Sedimentation on Horn Island, Mississippi and Stratigraphy of the Quaternary and Upper Tertiary of the Pasacoula Valley, Mississippi, 10th Annual GCAGS Meeting, 24 p., 1960.
 MGS 103G\$2.50

The Paleozoics of Northwest Arkansas, 16th Field Trip, 48 p., May, 1962.
 MGS 104G\$5.00

Mississippian Rocks of the Black Warrior Basin, 17th Field Trip, 79 p., April, 1978.
 MGS 105G\$8.00

Tertiary and Upper Cretaceous Depositional Environments, Central Mississippi and West-Central 33rd Annual GCAGS Meeting, 40 p., 1983.
 MGS 106G\$7.50

The Cretaceous Chalk of the Starkville Area, Northeast Mississippi, by Ernest E. Russell and Stewart W. Welch, co-authors. Contains articles and road log for two-day field

trip. 18th Field Trip Guidebook, 69 p., April, 1991.
 MGS 107G\$10.00

COMPOSITE LOGS AND CROSS SECTIONS
Composite Mesozoic Log of South Mississippi and South Alabama.
 MGS 201M\$2.00

Composite Paleozoic Log of Black Warrior Basin, Mississippi and Alabama.
 MGS 202M\$2.00

Well Log Correlation Sections, Paleozoic of the Black Warrior Basin, Set of five sections.
 MGS 210CS\$10.00

Stratigraphic Cross Sections, Jurassic of Mississippi, Alabama and Northwest Florida, Set of nine sections.
 MGS 211CS\$50.00

Supplement II, Volume III of the "Mesozoic-Paleozoic Fields of Mississippi and Alabama" (the MGS Red Book Series) comprises field data with maps of sixteen fields: Mississippi and Alabama:
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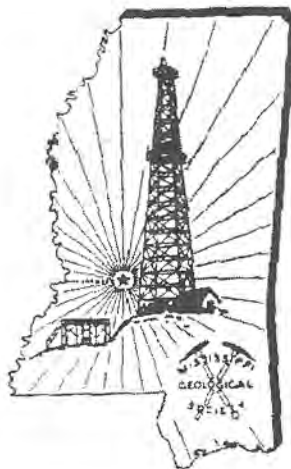
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MISSISSIPPI GEOLOGICAL SOCIETY

VOLUME 47

NUMBER 3

NOVEMBER, 1998

PRESIDENT'S LETTER

by *Rick L. Ericksen*

Just so you don't forget, there are two new MGS Committees - the Water Resources Committee and the Governmental/Legislative Affairs Committee. We plan to have them provide brief reports, as needed, at upcoming MGS Noon Luncheon Meetings. These status reports will be short (so don't groan) and if you hear something of interest and want to provide input, both of these committees will gladly accept your support and help.

The Governmental Affairs/Legislative Committee will be monitoring some controversial legislation which will be introduced during our state's upcoming legislative session which starts in early January. The purpose of the committee is to inform MGS members of pending legislation and regulatory actions which may affect our profession (see notice on page 3).

This month's guest speaker is Dr. Rick Major. I had the pleasure of meeting and visiting with Dr. Major several months ago while ferrying NORM samples up to the University of Mississippi. Dr. Major, a geologist, is the new Chairman of the Department of Geology and Geological Engineering at Ole Miss.

Also tentatively scheduled for this month's meeting are presentations to recipients of the Larry Boland Memorial Scholarship Fund. Because of printing deadlines, I must include this scheduling as only tentative as the Boland Scholarship Committee is in the midst of making arrangements for interviews of the candidates. With a little luck, it will all turn out as planned. Otherwise, a later announcement date will be noted in an upcoming MGS bulletin.

The NORM project, of which I am principal investigator, is in its second year of operation. The NORM study is being funded by a grant from the United States Department of Energy. Both the Mississippi Mineral Resources Institute and the Research Institute of Pharmaceutical Science at Ole Miss are part of this research effort. Co-investigators involved with the project are Charles T. Swann (MMRI) and John Mathews (RIPS). To date we have sampled approximately 120 wells in 19 oil and gas fields across the state. In addition to these fluid samples (brines), we have also been collecting samples of soils which have apparent high NORM unrelated to oil and gas operations. These samples,

as well as those brines already studied, are being analyzed for radium, thorium, and uranium content and the isotopic composition of the radium (Ra-226 and Ra-228). All data is preliminary and is continuing to be studied to determine potential relationships between various reservoir parameters (e.g. mineralogy, age, depth, etc). A very recent study has suggested that there is a relationship between total (continued page 3)

MGS Professional Luncheon Topic & Speaker, November 10th

Geochemical Tracers of Dolomitizing Fluids: A Tool for Predicting Diagenetically Controlled Porosity on a Reservoir Scale

presented by: R. "Rick" P. Major

*The meeting will be held at the Capitol Club
November 10th from 11:30 to 1:00 p.m.*

Mole-per-mole replacement of calcite by dolomite yields an approximately 12% increase in porosity because dolomite is more dense than calcite. However, data from the Pliocene-Pleistocene Seroe Domi Formation of Bonaire, Netherlands Antilles, demonstrate that dolomitization can result in porosity reduction.

Foreslope grainstone on Bonaire exhibits a progressive increase in calcium content, strontium content, and unit cell dimensions from updip low-porosity rocks to downdip high-porosity rocks. Dolomite is in transitional contact with downdip limestone, and dolomitization is interpreted to have resulted from downward movement of marine-derived hypersaline brines from a superjacent sea-marginal lagoon or saline lake. Rocks proximal to the source of dolomitizing fluids exhibit a greater amount of porosity occlusion than more distal rocks, indicating that dolomitization was a porosity-destroying process and that the degree of destruction can be calibrated to the flow path of dolomitizing fluids. Porosity observed in Bonaire dolomite varies over a distance of hundreds of meters (continued on page 3)

MISSISSIPPI GEOLOGICAL SOCIETY 1997-1998

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MGS Meeting Schedules :

Officers Meetings

September 1st
 October 6th
 November 3rd
 December 1st
 January 5th
 February 2nd
 March 2nd
 April 6th
 May 4th

Professional Meetings

September 18th PTTC Workshop & Fall BBQ
 October 13th Monerief — Tuscaloosa Marine Shale
 November 10th Rick Major-GeoChem Tracers-Dolom
 December 8th Christmas Party, Tuesday 8th
 January 12th TBA
 February 9th Professional Ethics — Bob Sellers
 March 9th TBA
 April 13th TBA
 May 14th Spring Fling & Officer Elections

Honorary Members : (* — deceased)

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 Stanley King
 1993-1994 Brian Sims
 1994-1995 C. W. "Neil" Barnes
 1995-1996 Lester Aultman
 1996-1997 Jack S. Moody
 1997-1998 George B. Vockroth

Geology & Industry Announcements :

Speaker's Topic Continued :

along fluid-flow paths.

Tracing dolomitizing fluid pathways may predict diagenetically controlled porosity trends in ancient rocks. Because porosity trends are associated with significant changes in petrophysical characteristics and fluid storage capacity at a between-well scale, this interpretation scheme may aid mapping of flow units in hydrocarbon reservoirs.

Speaker Info :

Rick Major holds a Ph.D. degree in geology from Brown University and was a National Research Council Postdoctoral Associate with the U.S. Geological Survey. He is a former Senior Geologist with Amoco Production Company and served on the research staff of The University of Texas at Austin, Bureau of Economic Geology, where he was a Senior Research Scientist and Program Director. Since July 1998 he has been Professor and Chairman of the Department of Geology and Geological Engineering at the University of Mississippi.

Rick's research interests are sedimentology and stratigraphy, with particular emphasis on the chemical and textural aspects of carbonate diagenesis. He has served on the editorial boards of the *American Association of Petroleum Geologists* and the *Journal of Sedimentary Research*, and he is a Fellow of the Geological Society of America.

MGS Environmental Section Meeting

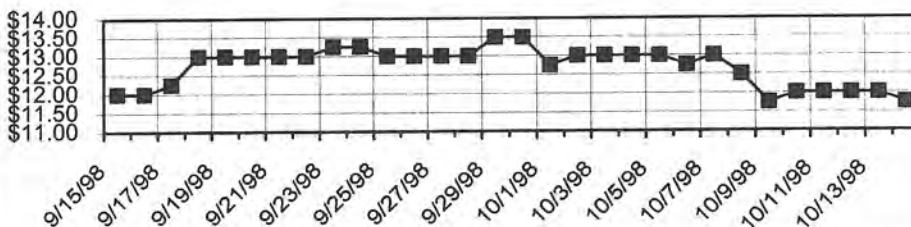
The Environmental Geology Section meets every third Tuesday of every odd month at Southport Mall in the DEQ Commission Hearing Room from 11:45 to 1:00. Our next meeting will be November 17th. Contact Pat Phillips (961-5213) or Steve Jennings (961-5205) for details.

Monthly Oil Price Chart

George Vockroth has supplied the following daily oil price data to illustrate the degree of daily price fluctuations

Note: East Mississippi is \$3.50 below WTI; West Mississippi is \$.75 below WTI

West Texas Intermediate Crude



DEADLINE NEAR TO APPLY FOR GEOLOGICAL REGISTRATION UNDER GRANDFATHER PERIOD

December 31, 1998 is the deadline to apply for Registered Professional Geologist or Geologist in Training under the grandfathering provision in the state of Mississippi.

Application packages will be available at all MGS meetings or you may contact the Mississippi State Board of Registered Professional Geologists at PO Box 22742, Jackson, MS 39225-2742, or call (601) 961-5507.

The preferred option is to download the information from the following website:

<http://geology.deq.state.ms.us/geologyreg>

This website currently contains all of the necessary information to apply for registration as a Registered Professional Geologist (RPG) or a Geologist-In-Training (GIT), including the necessary, downloadable forms. It also contains information concerning members of the Board and the law which is required to be read by the applicant. The application fee is \$95.00 for a RPG, and \$50.00 for the GIT; and if registration is approved the biennial fee is \$130.00 for the RPG and \$100 for a GIT. Again, the grandfathering period terminates in December of 1998.

President's Letter Continued:

chlorine and radium content. This relationship will be further studied during the course of this project to determine its validity. A presentation of the data derived to date will be given at the upcoming Mississippi Academy of Sciences Annual Meeting to be held in Tupelo and the most recent semi-annual report is available upon request.

Last but not least, since this will be the last bulletin before one of the upcoming holidays, I, along with the Executive Board, wish you and your families a pleasant Thanksgiving and some well deserved time off for the weary to share with their loved ones. Until next time -

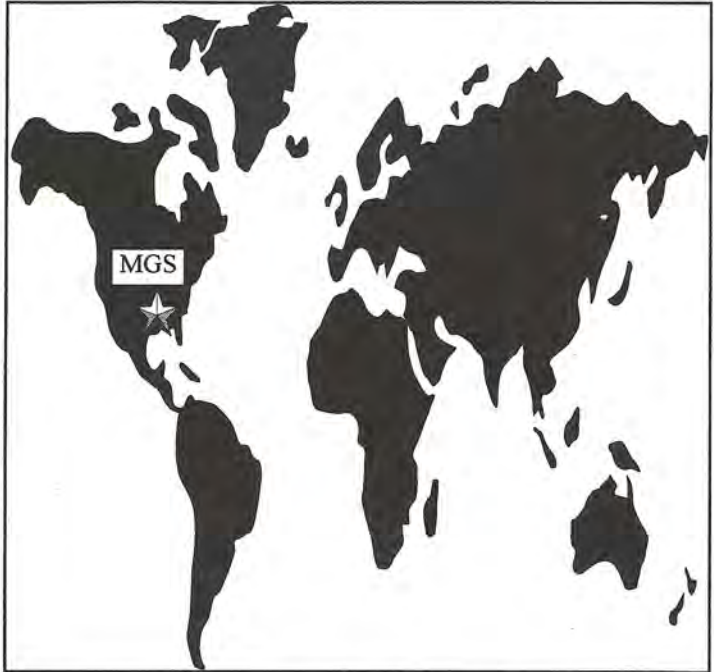
Rick L. Erickson

SPECIAL NOTICE Thursday, November 12th set for meeting to inform MGS Members on issues facing the profession.

A 4 p.m. informational meeting will be held in the large conference room at the Jackson Enterprise Center (old GE plant on Terry Road), across from Battlefield Park. This meeting is for "MGS Members Only". For information contact: Mike Noone at 957-8967 or Steve Jennings at 961-5205.

NOVEMBER 1998 MEETING SCHEDULE

| SUN | MON | TUE | WED | THU | FRI | SAT |
|-----|---------------------------------|---------------------------------|----------------------------------|--------------------------------|-----|-----|
| 1 | 2 | 3 MGS OFFICER- MEETING | 4 D & D OFFICER MEETING | 5 SIPES LUNCH MEETING | 6 | 7 |
| 8 | 9 MAPL EVENING MEETING | 10 MGS LUNCH MEETING | 11 D & D LUNCH MEETING | 12 | 13 | 14 |
| 15 | 16 | 17 MGS ENVIR SECTION | 18 O&G BD. | 19 | 20 | 21 |
| 22 | 23 | 24 | 25 | 26 | 27 | 28 |



OTHER 1998 MEETINGS : *Annual Meetings*

GCAGS Sept, 1999 ; AAPG ; SEG Sep ;
SPE Sept 27-30; AIPG Oct ; AEG Oct.;

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Adopt-A-Stream Workshop

November 11-13, 1998

*At Paul B. Johnson State Park
Hattiesburg, Mississippi*

The Adopt-A-Stream (AAS) program is a cooperative effort between the Mississippi Department of Environmental Quality (MDEQ) and the Mississippi Wildlife Federation (MWF) to involve citizens in stream stewardship and water quality monitoring. Any individual or group, including school groups, can become Stream Stewards by contacting MDEQ or MWF at the phone numbers listed below. The work activities are on a volunteer basis; however, if you want to become a volunteer you'll need to attend one of the two workshops put on each year by MDEQ & MWF. As a water quality monitor, you will learn to survey and map your adopted stream's watershed and to conduct chemical and biological monitoring. Other activities include community education, advocacy work, litter pickups, and storm drain stenciling. Contact Anne Moormat MDEQ 601. 961-5394 or Donna Yowell at MWF 601. 35306922.

This announcement has been included in this bulletin due to the fact that many of our members have investments in the current markets.

**A SEMINAR WILL BE PRESENTED ON
BEAR MARKETS**

November 17, 1998 Jackson, MS

Energy analyst Kate Warne will be presenting a seminar on the market in general and particularly on the energy markets and the opportunities in energy sector securities.

Edward Jones Equity Research Department employed Dr. Warne in 1997 where she currently follows 10 companies in the energy sector. Kate holds degrees from Swarthmore College, The London School of Economics and a doctorate in economics from Yale University. She has held positions at the Yale business school, General Motors, Southwestern Bell, and the Witan Company.

For more information, contact Jeff Lundy at
601.853-0044 or 888.813-1612

Geology & Industry News Briefs : (News Summaries with Periodical Credits)

Geotimes September Issue *Energy Brief - March 1998 estimates*

Domestic field production at 8,608 thousand barrels per day — crude oil at 6,465 and natural gas plant liquids at 1,846. Dry gas production was estimated at 1,647 billion cubic feet. Coal production at 95,482 thousand short tons.

Imports averaged 10,544 thousand barrels per day, an increase of 1% from May 1997. API reports imports met 51.12% of U.S. supply — supply in May 1998 was .6% higher than May 1997.

U.S. consumption totaled 7.94×10^{15} Btu's. The Energy Department reports that petroleum accounted for 38.43%, natural gas 28.61%, coal 21.34%, nuclear power 7.19%, and hydroelectric power 4.27% of total consumption.

Wall Street Journal

(— gleaned from two articles published earlier this year —)

A “**slippery slope is approaching**” and “**the second oil crisis will be for real.**” These two articles published within the past year clearly depict part of the dilemma surrounding the petroleum industry today. However, what has been left out is the impact that proposed electric utility deregulation will play in the mix; not to forget the impending prospect that the so called “Asian Flu” will have on global consumption of energy.

The “slippery slope” written by Gwynne Dyer suggests that the low prices seen today will rise dramatically in the years ahead as total world production falls into absolute decline — somewhere around 2036, less than 40 years from now. In the article, Dyer quoted American geologist Craig Hatfield who concludes that “the world will probably reach its maximum oil production in the next 15 years”, also suggesting that oil prices would rise steeply before that, depending on the growth rate in third world industrialization.

At the time of the article, the “Asian Tiger” spawned much interest and investment world-wide; however, today the Asian Tiger has become a “paper tiger”,

mired in its own excess. From this, global energy consumption rates are expected to decrease (to what extent is uncertain at this time), probably putting off the projected date of world oil production decline for some years. Still, we are apparently approaching a terminus for petroleum production, somewhere within the next generation — something that most of us would consider a relatively short time, certainly something that would likely effect our children or grandchildren.

“The second oil crisis will be for real”, says Gregg Easterbrook, the second author credited here. Easterbrook compiled the following statistics :

- ◆ More oil burned in 1970 than burned throughout history to that point.
- ◆ About 800 billion barrels of oil have been burned to date, with roughly 1,000 billion to 1,600 billion barrels estimated to remain in formations where production would be economically feasible.
- ◆ At the current rate of world consumption, the estimated 1,600 billion barrels would be depleted in about 60 years, without an increase in consumption.
- ◆ At a 2% annual increase in oil demand, by 2010 the world will have consumed half the total amount of oil that appears economically and technologically feasible to extract.
- ◆ If demand continues to expand while reserves decline, the oil-price equilibrium will rise; eventually, supply will become scarce relative to demand and a permanent oil-price spiral would likely begin.
- ◆ In less than 50 years the world moved from the view of oil being an oddity to an oil-based transportation economy.

Alternatives for oil are not far off — hydrogen made from natural gas could power “fuel cell” vehicles, and there’s solar energy as well. Although cost prohibitive now, these could become cost effective as the period of absolute decline in world oil production approaches.

Easterbrook’s article was written to promote thought toward a transition to (and investment in) alternative fuel sources — sustainable development — a major

plank in the environmental mantra. I’m not saying that’s bad or improper, just that there’s an environmental connection here — certainly a motivation out of concern and perhaps he recognizes real investment potential as the world transitions out of the oil-based transportation and energy economy. Other alternative fuel sources were not discussed, such as conversion of coal and lignite to transportation fuels (possibly economic above \$30 per barrel oil). Also left out of the solution was natural gas, a fuel that currently is touted as “environmentally friendly”, “the clean fuel”. I suppose that all hydrocarbon-based natural resources are less desirable to some individuals or groups and may continue to be targets for environmental challenges well into the future, regardless of the economics.

Never the less, it does appear that we will be facing major challenges in the near future. We may need to begin thinking about the next 50 years of our hydrocarbon-based energy & transportation economies. The onslaught of electric utility deregulation is already having an impact on the petroleum business, as did deregulation of gas pipeline transmissions. Stringent environmental pressures are increasing. Those individuals that predicted the end of the small petroleum independent appear to be right — small independents are a vanishing breed that are going by the wayside as did the horse and buggy. Perhaps the transition from the “era of automation” to the “information age” we are now undergoing will quicken and/or force other fundamental changes in our world economies. Today, with our longer life expectancies, some will live well into their 80’s or 90’s — and dwell see whether these reports are true. If true, a fundamental change in life styles will occur over the next 20 to 30 years, much as some of our grandparents lived from wagon rides, to the first autos and airplanes, and the exploration of space — actually seeing man take his first steps on the moon.



Geology & Industry News Briefs : (News Summaries with Periodical Credits)

Water Well Journal

Electric Utility Deregulation began in 1992 when Congress approved FERC initiatives by passing the Energy Policy Act which requires transmission-owning utilities to permit access to their transmission systems for bulk-power transactions. A study by the Office of Advocacy on the effects of electric utility deregulation, *Electric Utility Restructuring: Issues for Small Business*, examines the issues associated with the electric power deregulation and restructuring for their potential impact on small business. Key issues in the report are :

- ◆ Separation of electrical power generation from electric power transmission, and development of non-utility electrical generation companies.
- ◆ Realization of costs savings in power generation by municipal utility distributors using nonutility generators - and by large industrial companies able to generate their own power or to threaten utility providers with self-generation and thus obtain special discounts.
- ◆ Advances in technology that, with open access to utility transmission systems, allows competitors entry to the monopolized power generation market - appropriately defined transmission access rules will allow independent power suppliers to compete, bringing substantial cost savings to consumers.

"Stranded" costs that would not be fully recoverable in a competitive environment disproportionately has become the responsibility of captive customers (small business) who lack the bargaining clout to demand and obtain special discounts. For more information call 703. 487-4650.

{ In Mississippi, Phillips Coal and Tractabel Power (a Belgium based company) have been granted several permits which will allow them to cooperate in bringing independently owned, lignite-fired electric power generation to the state. Phillips, Tractabel and TVA have signed agreements for the sale and purchase of electric power generated at the proposed plant site. These companies

are positioning themselves for the long-term within the scope of the two previous news summaries. }

"Orphan" gas and oil wells are being evaluated for potential production by the Petroleum Foundation of America (PFA) with the cooperation the Colorado School of Mines, Texas A&M, and Louisiana State University. Tens of thousand of oil and gas wells have become orphaned wards of the states, carrying major financial and environmental liability for states that do not have sufficient funding to address the problem. PFA, in association with the universities, will attempt to place back-on-production many of these orphan wells, as well as idle wells which are not orphaned. Currently there are hundreds of thousands of nonproducing wells in the U.S. with estimated reserves of more than 3 billion barrels of oil. A special emphasis will be placed on evaluating producing zones currently behind-the-pipe, using new technology. Oil and gas producers who take part in funding a study in their state will gain exclusive rights to the results of the well evaluations. The operator can then acquire the rights to the well for little or no cost, and can often attain substantial production in placing the well back-on-stream. PFA will use revenues derived from this program to provide petroleum products at reduced cost to the disadvantaged. Donations of oil and gas properties, equipment, or time is appreciated.

For more information, contact
PFA at 501. 881-5472 or
Internet rworld@hooked.net

EPA has proposed revisions for Under Ground Injection Class V wells (UIC). UIC's are typically shallow disposal systems used to place a variety of fluids below land surface, into or above ground water resources, sources of potable drinking water. The proposal expands the regulatory requirements already in place that prohibit the endangerment of our ground water resources, requiring Class V operators and owners to submit a basic inventory. The proposal covers wells in source water protection areas because waste disposal wells in these

areas pose the greatest risk to public health. For more information , see web site

<http://www.epa.gov/ogwdw/uic.html>

EOM -Earth Observation Mag.-

NASA's Affiliated Research Center Program (ARC), an extension of the Commercial Remote Sensing Program at the John C. Stennis Space Center in south Mississippi, adds five new universities to assist the U.S. industry in evaluating the commercial application of spatial technologies. The ARC program studies technologies such as remote sensing, geographic information systems, and the global positioning system with projects supporting technical, market, and business innovation to develop new products or services that serve emerging domestic and international markets. Selected proposals usually have strong business and marketing plans, product advisory boards to guide the product and or service development, and substantial financial commitments to the projects by the companies.

Oil & Gas World

The Society of Exploration Geophysicists expands its continuing education program and makes plans to develop interactive Internet courses. Seven new courses are planned, including Time-Lapse Seismic and Converted Wave Interpretation, and Electronic Interactive Education.

MISSTAP

The Mississippi Technical Assistance Program for Pollution Prevention reminds us that **December 22, 1998** is the deadline for upgrading, replacing, or closing existing substandard Under-ground Storage Tank (UST) systems. There are a limited number of contractors who are qualified to conduct tank installations, removals, and upgrades; therefore, there will be increasingly heavy demand for services as the deadline approaches. Costs will increase with demand and there may be extended delays in restoring services to your facility if you haven't complied at this time.

Geology & Industry News Briefs : (News Summaries with Periodical Credits)

PC WEEK

Outsell, Inc., a research and advisory company in Minneapolis, conducted a two month study, titled *Information About Information*. The survey of 300 marketing professionals were asked to identify their preferred mediums for receiving information, such as marketing reports and analyses. The survey showed that 65% preferred information in print, 51% preferred information from the Internet; while only 18% picked e-mail and 8% preferred corporate intranet. The consensus from the report suggests that users are not abandoning all print forms of information in favor of going online. The author pointed out that "print is tactile; you can take it with you, you can write all over it" and that "paperless offices are still not a reality."

GCN Government Computer News

According to Dendy Young, the next five years will set the foundation for the next technology wave - the communications wave. The communications wave will provide the freedom and ability to communicate digitally, quickly and accurately in the office, the nation, and to distant parts of the world.

Over the past 30 years, technology has evolved in waves. In the 1960's and early 70's we saw the mainframe wave; mid-70's and early 80's saw the mini computer wave; and the mid-80's through early 90's, the PC. Computers became smaller, faster and more powerful.

Since the 1960's, computer technology has been driven by Moore's Law — "computer performance doubles every 18 months". Young expects computer performance to double three or more times in the next 10 years and our ability to compute will be enhanced by as much as eight fold.

GIS World

The USGS increased its spending level request by \$47.7 million, totaling \$806.9 million, to address increased demands for internal and government agencies scientific information needs. The demands

for scientific, health and economic data include the nation's water quality, increased understanding of species and habitats, and the safety of life and property in earthquakes, floods and other natural disasters. The USGS budget requested more than \$16 million for its National Mapping Program (NMP) along with an \$18 million increase to support the program's earth science information management and delivery. NMP funding for geographic research and applications increased to more than \$39 million which was offset by a \$4 million reduction to the agency's mapping data collection and integration efforts. The \$18 million also includes increased funding for the Earth Resources Observation Systems Data Center because Congress shifted responsibility for the National Satellite Land Remote Sensing Data Archive from NASA to the USGS. As stated in the funding bill, "the requested increase will begin to provide the systems and infrastructure capacity to ensure the availability and avoid permanent loss of these data."

The Association of American State Geologists (AASG) and the USGS are developing the National Geologic Map Database, initiated in 1992 as the National Geographic Mapping Act. The data base supports federal, state, and educational mapping projects, ensuring the results of these efforts are accessible to map users via the World Wide Web at <http://www.ncgmp.usgs.gov/ngmdbproject>. Map standards have been developed for which geology, geophysics, geochemistry, geochronology, and paleontology are available. Access to state and federal map holdings are provided. At this time, only about 20% of the nation is adequately mapped geologically.

A NASA space shuttle mission scheduled for December 1999 could produce - for the first time ever - a complete digital elevation map of the Earth. NASA's Magellan spacecraft, launched in 1989, used radar-imaging technology to create a digital elevation map of Venus — this global topographic map of Venus is better than any we have of Earth. Because the shuttle is unable to orbit the Earth's poles, the global map won't include

Antarctica, northern Canada, most of Alaska or other areas near the poles. The digital map will show about 80% of the globe which contains about 95% of the population. Once complete, the map will be used by DOD as a reliable topographic dataset for mission planning and rehearsal, modeling and simulation. Scientific applications include merging of global digital data with topographic maps to study relationships between elevation and land cover, placement of microwave transmission towers, and evaluation of the Earth's landscape and curvature.

Earth News

Record high temperatures on Earth's surface in recent years have fueled the debate on global warming. However some satellite data show that the planet's lower atmosphere has actually cooled. Both observations appear at odds — either surface warming is a mirage or global warming is heating the Earth's surface without heating the atmosphere.

Climatologists James Hurrell and Kevin Trenberth with the National Center for Atmospheric Research, Boulder, Colorado advise that the satellite measurements are at the center of the problem. They believe that the researchers that found 0.1 degree Celsius atmospheric cooling per decade were led astray because they constructed a continuous temperature record by matching up measurements from eight successive satellites. In effect, they were swapping thermometers. Some of the big chills in 1981 and 1991 coincided with satellite swaps.

However, meteorologist John Christy, University of Alabama, reminds that those chills also coincide with major events such as El Nino and volcanic eruptions as well. Christy helped assemble the satellite record and stands behind its accuracy. He also reminds us that the cooling, often cited by climate change skeptics as proof that warming itself is a mirage, may simply mean that ground and sky are less tightly linked than climatologists have assumed. Meteorologist Alan Basist of the National Climate Data Center, North Carolina, says the new information "is forcing both camps to take a hard look at their data."



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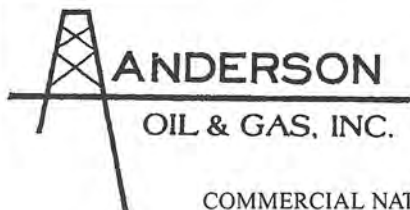
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Wilcox Fields of Southwest Mississippi, Maps and production data on 171 fields, in ring binder, 350p, 1969.

MGS 001SV\$28.00

Mesozoic-Paleozoic Producing Areas of Mississippi and Alabama, Volume II, Maps and producing data on 146 fields, in ring binder, 361 p., 1963-1980.

MGS 003SV\$50.00

Volume II In Separate Sections:

Volume II, Includes Supplement 1, Maps and Producing data on 77 fields, 143 p., 1963.

MGS 004SV\$15.00

Volume II, Supplements 2 through 7, Maps and producing data on 35 fields, 110 p., 1964-1972.

MGS 005SV\$25.00

Volume II, Supplement 8, Maps and producing data on 34 fields, 108 p., 1980.

MGS 006SV\$25.00

Mesozoic-Paleozoic Producing Areas of Mississippi and Alabama, Volume III, Includes discovery, structural, and lithologic summaries along with reservoir parameters and production data on 55 selected fields. Each field summary is accompanied by a structure map and a type log. In three-ring binder, 166 p., December, 1986.

MGS 007SV\$50.00

Supplement for Volume III, Contains information, structure contour maps, and type logs on 19 fields—six in Alabama, two in Florida, and eleven in Mississippi. 45 p., 1992, heavy stock, punched for binder.

MGS 008SV\$25.00

Oil in the Deep South, A History of the Oil Business in Mississippi, Alabama, and Florida, 1859-1945, by Dudley J. Hughes. A statistical and chronological summary of the evolution of the petroleum business in the southeastern United States. Includes personal stories of the companies, entrepreneurs, promoters, investors and workers who played major roles in the development of the oil business from its inception in the early 1900s to 1945. Hardbound book, 267 p., 1993.

MGS 020SV\$35.00

FIELD TRIP GUIDEBOOKS

Upper Cretaceous Outcrops, Northeast Mississippi and

West-Central Alabama, 14th Field Trip, 29 p., May, 1959.

MGS 101 G\$4.00

Recent Sedimentation on Horn Island, Mississippi and Stratigraphy of the Quaternary and Upper Tertiary of the Pasacoula Valley, Mississippi, 10th Annual GCAGS Meeting, 24 p., 1960.

MGS 103G\$2.50

The Paleozoics of Northwest Arkansas, 16th Field Trip, 48 p., May, 1962.

MGS 104G\$5.00

Mississippian Rocks of the Black Warrior Basin, 17th Field Trip, 79 p., April, 1978.

MGS 105G\$8.00

Tertiary and Upper Cretaceous Depositional Environments, Central Mississippi and West-Central 33rd Annual GCAGS Meeting, 40 p., 1983.

MGS 106G\$7.50

The Cretaceous Chalk of the Starkville Area, Northeast Mississippi, by Ernest E. Russell and Stewart W. Welch, co-authors. Contains articles and road log for two-day field

trip. 18th Field Trip Guidebook, 69 p., April, 1991.
MGS 107G\$10.00

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Composite Mesozoic Log of South Mississippi and South Alabama.

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Composite Paleozoic Log of Black Warrior Basin, Mississippi and Alabama.

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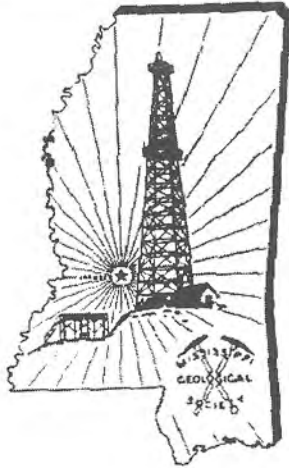
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MISSISSIPPI GEOLOGICAL SOCIETY

VOLUME 47

NUMBER 4

DECEMBER, 1998

PRESIDENT'S LETTER

by Rick L. Ericksen

To begin this December newsletter, I'd like to direct your attention to the photo on this cover page. In the photo are the four recipients of the Larry F. Boland Scholarship which is awarded annually to students possessing high academic achievement, geologic curiosity, are responsible, dependable, and of good ethical character. From left to right, they are: Elizabeth Hoffmaster - Mississippi State University; Will Beard - Millsaps College; Curtis Odom - University of Southern Mississippi; and Stephanie Anders - University of Mississippi. We congratulate them on their achievements and encourage them in their professional pursuits.

Please don't forget to RSVP for your attendance at our Annual Christmas Party (601 . 961-5500). This particular event highlights our community's 'SPIRIT'.

THIS IS THE FINAL NOTICE!

"Grandfathering" for geologic registration ends on December 31, 1998. In order to qualify under the terms of the "grandfathering" provision you must have a degree in geology from an accredited (4 year) college or university with at least 30 semester hours or 45 quarter hours of credit in the study of geology or a geological specialty and have a minimum of 4 years of qualifying experience in geology or a geological specialty. You must have your application postmarked no later than that date in order to become registered without having to take the Association of State Boards of Geology (ASBOG) tests.

The required three (3) references and
(continued page 4)

*There will be no
MGS Professional Luncheon
this month. MGS will co-host our
Annual Christmas Party with the
Jackson Desk & Derrick,
and this year the Jackson Geophysical
Society, SIPES, and SPE have been
asked to join us in
the holiday celebrations.*

We hope to see you there !



MISSISSIPPI GEOLOGICAL SOCIETY 1997-1998

BOARD OF DIRECTORS

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| Editor | Stephen L. Ingram, Sr..... | Mississippi Office of Geology | (601) 354-6328 |

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|-------------------------------------|------------------------------------|------------------------------------|---------------------------|
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| Honorary Membership | Charles H. Williams, Jr..... | Vaughey & Vaughey | (601) 354-4612 |
| Legislative Cmt | | | |
| Water Resources Advisory Cmt | Harold Karges & George Vockroth. | Consultants..... | (601) 352-0972 ; 948-3351 |

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| | | | |
|---|------------------------|------------------------------------|----------------|
| Term to June 2000 | Jack Moody..... | Mississippi Office of Geology | (601) 961-5522 |
| Term to June 2002 | Rick L. Ericksen | Mississippi Office of Geology..... | (601) 961-5507 |
| Alternate, Term to 2002 | Todd Hines..... | Moon & Hines..... | (601) 944-4700 |
| Chairman, DPA State Registration Cmt. . | Rick L. Ericksen | Mississippi Office of Geology..... | (601) 961-5507 |
| House of Delegates Rules & Procedures Cmt... Rick L. Ericksen | | | |

MGS Meeting Schedules :

Officers Meetings

September 1st
 October 6th
 November 3rd
 December 1st
 January 5th
 February 2nd
 March 2nd
 April 6th
 May 4th

Professional Meetings

September 18th PTTC Workshop & Fall BBQ
 October 13th Moncrief — Tuscaloosa Marine Shale
 November 10th Rick Major-GeoChem Tracers-Dolom
 December 8th Christmas Party, Tuesday 8th
 January 12th TBA
 February 9th Professional Ethics — Bob Sellers
 March 9th TBA
 April 13th TBA
 May 14th Spring Fling & Officer Elections

Honorary Members : (* — deceased)

| | |
|----------------------|----------------------|
| Esther Applin * | Winnie McGlammy * |
| Paul Applin * | Thomas McGlothlin * |
| Lawrence F. Boland * | Frederic F. Mellen * |
| Verne L. Culbertson | Maurice E. Meisse * |
| H. Leroy Francis * | Emil Monsour |
| David C. Harrell * | William H. Moore |
| Oleta R. Harrell * | Marvin E. Norman * |
| Dudley J. Hughes | Richard R. Priddy * |
| Urban B. Hughes * | Thurston C. Rader * |
| Wendell B. Johnson * | Donald Reese * |
| Walter P. Jones * | Baxter Smith * |
| Wilbur H. Knight* | Henry Toler * |
| Hilton L. Ladner * | Jerry Zoble |

PAST PRESIDENTS

| | | | | | |
|-----------------|----------------------|-----------------|---------------------|-----------------|-------------------------|
| 1939-1940 | Henry N. Toler | 1958-1959 | Charles Brown | 1979-1980 | Philip R. Reeves |
| 1940-1941 | Urban B. Hughes | 1959-1960 | M. F. Kirby | 1980-1981 | Marshall Kern |
| 1941-1942 | J. Tom McGlothlin | 1960-1961 | Rudy Ewing | 1981-1982 | Stephen Oivanki |
| 1942-1943 | Dave C. Harrell | 1961-1962 | Xavier M. Frasnogna | 1982-1983 | James W. "Buddy" Twiner |
| 1943-1944 | K. K. "Bob" Spooner | 1962-1963 | Robert B. Ross | 1983-1984 | Charles H. Williams |
| 1944-1945 | L. R. McFarland | 1963-1964 | William A. Skees | 1984-1985 | C. Kip Ferns |
| 1945-1946 | J. B. Story | | Marvin Oxley | 1985-1986 | Steven S. Walkinshaw |
| 1946-1947 | Frederic F. Mellen | 1964-1965 | James F. Bollman | 1986-1987 | J. R. "Bob" White |
| 1947-1948 | H. Lee Spyres | 1965-1966 | Sankey L. Blanton | 1987-1988 | Harry Spooner |
| | Robert D. Sprague | 1966-1967 | Alan Jackson | 1988-1989 | Stanley King |
| 1948-1949 | Robert D. Sprague | 1967-1968 | Julius M. Ridgway | 1989-1990 | Stan Galicki |
| 1949-1950 | E. T. "Mike" Monsour | 1968-1969 | Edward D. Miniham | 1990-1991 | Jim Files |
| 1950-1951 | J. Tate Clark | 1969-1970 | Kevin E. Cahill | 1991-1992 | Stephen L. Ingram, Sr. |
| | Charles E. Buck | 1970-1971 | John Lancaster | 1992-1993 | Michael Noone |
| 1951-1952 | George W. Field | 1971-1972 | Larry Boland | | Stanley King |
| 1952-1953 | James L. Martin, Jr. | 1972-1973 | Charles Barton | 1993-1994 | Brian Sims |
| 1953-1954 | Wilbur H. Knight | 1973-1974 | Larry Walter | 1994-1995 | C. W. "Neil" Barnes |
| 1954-1955 | A. Ed Blanton | 1974-1975 | W. E. "Gene" Taylor | 1995-1996 | Lester Aultman |
| 1955-1956 | Gilbert A. Talley | 1975-1976 | Jerry E. Zoble | 1996-1997 | Jack S. Moody |
| 1956-1957 | Ben Ploch | 1976-1977 | P. David Cate | | |
| | | 1977-1978 | Sarah Childress | | |

You are cordially invited to attend the
Annual Christmas Social

Co-sponsored by the :

Mississippi Geological Society
Jackson Desk & Derrick

The celebration will be held on
Tuesday, December 8th
beginning at 4:30 p.m.
ending around 6:00 p.m.

Cost is \$10 per person - includes hors d'oeuvres
Cash Bar for drinks

Please make your reservations by December 4th
by calling (601) 961-5500

Don't forget to bring your spouse or a guest along
for this special occasion.

Door prizes will be given away to a few of the ladies that attend —
But you'll have to be present. Happy Hoidays and the Season's Best !

Geology & Industry News Briefs :

President's Letter Continued:

college/university transcripts do not have to be received on or prior to this date, only the application section of the registration material.

Applications are available on the internet at the address listed in the notice (this page), or you may request an application by calling and leaving a message at the Board's office - that new phone number is 601/354-6370.

Increasing environmental and liability awareness should be a consideration in your decision. Remember that in order to publicly practice geology you must be registered — **the choice is yours.**

Please disregard this notice if you feel that existing and future governmental rules, regulations, and laws will not impact your profession during your lifetime.

Until next time -

Rick L. Ericksen



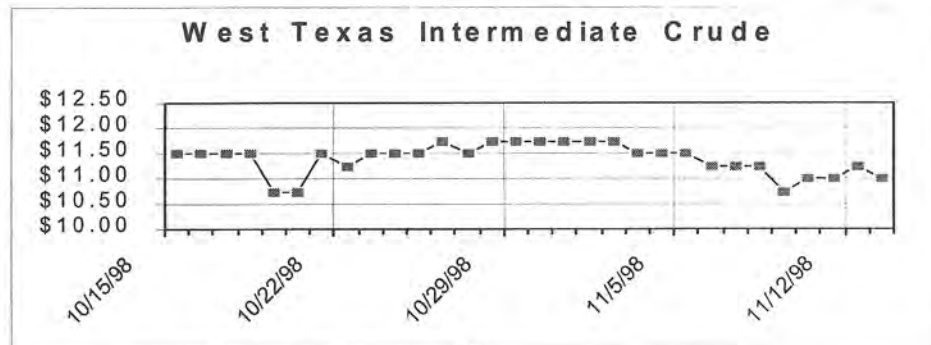
MGS Environmental Section Meeting

The Environmental Geology Section meets every third Tuesday of every odd month at Southport Mall in the DEQ Commission Hearing Room from 11:45 to 1:00. Our next meeting will be January 15th. Contact Pat Phillips (961-5213) or Steve Jennings (961-5205) for details.

Monthly Oil Price Chart

George Vockroth has supplied the following daily oil price data to illustrate the degree of daily price fluctuations

Note: East Mississippi is \$3.50 below WTI; West Mississippi is \$.75 below WTI



DEADLINE NEAR TO APPLY FOR GEOLOGICAL REGISTRATION UNDER GRANDFATHER PERIOD

December 31, 1998 is the deadline to apply for Registered Professional Geologist or Geologist in Training under the grandfathering provision in the state of Mississippi.

Application packages will be available at all MGS meetings or you may contact the Mississippi State Board of Registered Professional Geologists at PO Box 22742, Jackson, MS 39225-2742, or call (601) 961-5507.

The preferred option is to download the information from the following website:

<http://geology.deq.state.ms.us/geologyreg>

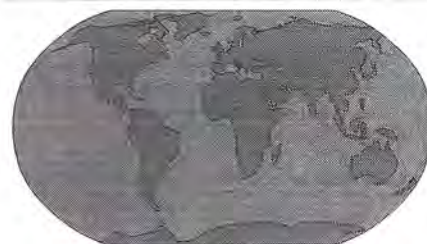
This website currently contains all of the necessary information to apply for registration as a Registered Professional Geologist (RPG) or a Geologist-In-Training (GIT), including the necessary, downloadable forms. It also contains information concerning members of the Board and the law which is required to be read by the applicant. The application fee is \$95.00 for a RPG, and \$50.00 for the GIT; and if registration is approved the biennial fee is \$130.00 for the RPG and \$100 for a GIT. Again, the grandfathering period terminates in December of 1998.

Editor's Note :

Two of our members are to be congratulated for their endeavors :

Stanley "Stan" J. Galicki, Adjunct Professor at Millsaps College and Doctoral graduate student at the University of Mississippi, has been awarded the GSA Engineering Geology Division student grant for an outstanding research proposal. His project — **"Temporal Equivalent Geochemical and Dendrochemical Analysis and Correlation of Heavy Metal Loading in a Wetland Sediment Profile, Sky Lake, Humphreys County, Mississippi"**.

Also to be congratulated- **Rick Ericksen** (currently our MGS President, President of the Mississippi State Board of Registered Professional Geologists, AAPG Delegate, and AAPG DPA Chairman of the State Registration Committee) has been asked to serve as one of four members of the **AAPG House of Delegates Rules and Procedures Committee.**



World Oil

The U.S. Energy Information Administration reported that during 1997, crude oil reserves increased for the first time in ten years - new reserves exceeded 1997 production by 25%. Natural gas reserves increased for the fourth year in a row. Driving the crude oil increases were Gulf of Mexico discoveries and revisions to California's heavy oil fields via steam flooding.

O&G Journal

Controversy over MTBE's health effects has escalated. MTBE's, a chemical substitute added to reformulate gasoline by increasing its oxygenate has been found in as many as 4300 water wells in Maine. From these finding, Maine Governor Angus King has asked the Fed's to allow his state to withdraw from the federal reformulated gasoline program. If EPA allows the withdrawal, Maine will have to find another fuel that meets the clean air rules. A group of Maine homeowners has filed a class-action suit against MTBE manufacturers and trade associations that purportedly promote its use. A similar lawsuit has been filed in California — the California EPA is considering adding MTBE to its list of identified hazards under the Safe Drinking Water and Toxic Enforcement Act, noting that MTBE's may be carcinogenic and may exhibit developmental and reproductive toxicity.

AEG NEWS

OSM permitting information rules found unlawful — On appeal, the National Mining Association challenged three sets of rules promulgated by the Office of Surface Mining Reclamation and Enforcement (OSM) under the Surface Mining Control & Reclamation Act (SMCRA). The Federal Circuit Court of Appeals reversed a lower court (District of Columbia) decision, finding all three rules unlawful, viz., (1) the ownership and control rule; (2) the permit-information rule, and (3) the permit-recission rule.

The 'ownership and control rule' violated Step One of the former Chevron decision

[Chevron, U.S.A.Inc. v. Natural Resources Defense Counsel, Inc., 467U.S. 837,194U.S.Ct.2778(1984)]. On applying the test proscribed by the US Supreme Court under Chevron, the court found that OSM had usurped its powers.

The appeals court noted that "Section 510(c) of SMCRA states that when any surface coal mining operation 'owned or controlled by the applicant is currently in violation of SMCRA, a permit shall not be issued. [30U.S.C. 1260(3)(1994)] In this section, Congress spoke precisely to the question of whose violations are relevant before an applicant's permit can be blocked —***It may only consider the violations of operation owned or controlled by the applicant. The court found that the OSM ownership rule was in violation of SMCRA [30C.F.R. 773.15 (b)(1)] and added that "Because the 'ownership and control' rule conflicts with the plain meaning of 501(c), it is unlawful."

In addition, the court held that "because the permit-information rule and the permit recission rule are centered on the ownership and control rule, they, too, must fall."

U.S. Water News

The **Upper Mississippi River**, from Bemidji, Minnesota to St. Louis, Missouri, and the **Lower Mississippi River** in Louisiana and Tennessee have been *designated as American Heritage Rivers*.

Designation under the American Heritage Rivers Initiative provides a federal 'river navigator' to each river to help local communities target and expedite available federal funding that can support and spur economic revitalization, protect natural resources and the environment, and preserve historic and cultural heritage. No new money was allocated for the program.

Geotimes

NSF recently funded an expedition, led by Dr. Lonnie Thompson - geoscientist at Ohio State University, to core a tropical glacier 6,540 meters atop a mountain in Bolivia. Following this effort last

October, Thompson then left to core the Dasuopu Glacier on Xixabangma peak, along the Tibetan Plateau. The Dasuopu Glacier is an ice field more than 8,000 meters high and is not only the highest to yield an ice core, but is also the coldest (non-polar). The cores retrieved are thought to contain excellent records since the bedrock level was minus 13 degrees C. In addition, the Dasuopu core is expected to provide a more accurate picture of the monsoonal climate system that affects Asia, and may include evidence for a link between the monsoons and El Nino.

George C. Marshall Inst.

Minor greenhouse gasses (CO₂ and methane) has increased in the atmosphere over the last several decades, mainly from human activities such as burning of coal and oil. From this, an increase in the global-average temperature is expected as these greenhouse gasses block heat-escape into space. All things being equal, the minor greenhouse gases would enhance the "greenhouse effect" produced primarily by water vapor in the atmosphere.

Sophisticated computer models forecast serious consequences from increased greenhouse gases and provide the foundation for global warming fears — However, the accuracy of these computer simulations in mimicking the earth's climate is under heavy scrutiny and challenge from many in the scientific community. Two keys to the problem is 1) knowing how the climate responds to the extra energy trapped in our atmosphere, and 2) understanding the climate's natural changes and distinguishing them from changes caused by human activity.

Cloud and water vapor properties must be known along with their type, thickness, extent, color, water-droplet content, and altitude. Also, cloud response to increased greenhouse gas is unknown (estimates must be attempted) and understanding the negative feedback (blocking out sun radiation) and positive feedback (trapping heat) in the atmosphere must be considered and no one knows what types and combinations of clouds result from increased greenhouse gases.



Climate modelers do strive to include such factors as clouds, amount of sunlight and dust, the color of leaves and number of trees, amount of over-grazed land, saltiness of the ocean, changes in the flows of major rivers, and the coverage of snow and ice at both polar caps. However, there are as many as 5 million variables handled by sophisticated climate computer models, and these models are missing important conditions including amount of rain, forest fires or whether or not there is an El Nino in the tropical Pacific Ocean.

Never-the-less, one thing is certain — the models have exaggerated global warming predictions — their hypothetical predictions have not occurred. This conclusion is obvious since greenhouse gases have increased substantially in the last half century and the models forecast a .2 degree C rise per decade, which has not occurred. Moreover, no significant warming trend has occurred in the last 18 years (including our recent hot spell where average temperatures held), based on satellite measurements of global temperatures recorded by NASA satellites (these records are under challenge, see Earth News article, November Bulletin).

The best conclusion one should put forth, then, is one of moderation — too much theory and not enough fact has exaggerated the global warming premise, yielding unacceptable scientific claims, thereby causing over reaction and unwarranted fear.

For a bit of interest and humor, the following story was excerpted from the August issue of the Water Well Journal.

Jack and Jill's well may be restored.

It appears the Jack and Jill of nursery rhyme fame may have been real people. The people of Kilmersdon, England, believe they lived in their village between 1485 and 1509. They were not children; it is believed they were a married couple.

Now Kilmersdon wants to capitalize on their fame by restoring the area made famous by their accident. According to *The Columbus Dispatch*, the well at the top of the hill where Jack and Jill went to "fetch a pail of water" has long been sealed but there's a campaign under way by villagers to raise money to renovate the area.

NAPE EXPO '99

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December 13-16

Las Vegas, Nevada

For more information on topics and exhibits
contact NGWA at 800. 551-7379.

SHALLOW MARINE AND NONMARINE RESERVOIRS Sequence Stratigraphy, Reservoir Architecture and Production Characteristics

**The Gulf Coast Section SEPM
18th Annual Research Conference
December 7-10 in Houston, Texas**

Over 35 oral papers, poster exhibits and interactive workstation presentations will be given during the two and one-half day research conference. Group lunches and evening events have also been organized. Contact GCSSEPB at 1-800-436-1424 or email at gcssepm@mail.snet.net

or

<http://www.gcssepm.org>

State Registration and Licensing Committee

Respectfully submitted,, Rick L. Ericksen, Chairman

The following details the status of states with registration/licensing requirements, activity, etc. as of September, 1998. Additional information is provided for those states which have continuing activity on registration for geologists.

States with Geological Registration/Licensure Laws

| STATE | DATE ENACTED | FORM OF LEGISLATION | SPECIALITY CERTIFICATION | CONTINUING EDUCATION REQUIRED | COMMENTS |
|--------------|--------------|----------------------|---------------------------------------|-------------------------------|---|
| Alabama | 1995 | Practice Regulation | Authorized | Yes | |
| Alaska | 1980 | Title Regulation | N/A | | No examination required |
| Arizona | 1956 | Practice Regulation | None | No | |
| Arkansas | 1988 | Practice Regulation | Authorized (but not implemented) | No | |
| California* | 1968 | Practice Regulation | Engineering Geology and Hydrogeology | No | |
| Carolina, N. | 1983 | Practice Regulation | None | No | |
| Carolina, S. | 1986 | Practice Regulation | None | Yes | |
| Colorado | 1973 | Statutory Definition | N/A | | |
| Delaware | 1972 | Practice Regulation | None | Yes | |
| Florida | 1988 | Practice Regulation | None | No | |
| Georgia | 1975 | Practice Regulation | Engineering Geology (not implemented) | No | |
| Idaho | 1971 | Practice Regulation | None | No | |
| Illinois | 1995 | Practice Regulation | None | | |
| Kansas | 1997 | Practice Regulation | None | No | |
| Kentucky | 1992 | Practice Regulation | None | No | |
| Maine | 1973 | Practice Regulation | None | No | |
| Michigan | 1988 | Statutory Definition | N/A | | |
| Minnesota | 1995 | Practice Regulation | Authorized (but not implemented) | No | Grandfathering ended 8/98 |
| Mississippi | 1997 | Practice Regulation | Authorized (but not implemented) | Encouraged | Grandfathering thru 12/31/98 |
| Missouri | 1994 | Practice Regulation | Authorized (but not implemented) | | |
| Nebraska | 1998 | Practice Regulation | None | No | Grandfathering starts when applications becomes available |
| Nevada | 1997 | Statutory Definition | N/A | | |
| Oklahoma | 1993 | Statutory Definition | N/A | | |
| Oregon | 1977 | Practice Regulation | Engineering Geology | No | |
| Pennsylvania | 1993 | Practice Regulation | None | No | |
| Tennessee | 1988 | Title Regulation | None | No | No examination required |
| Virginia | 1981 | Title Regulation | N/A | No | |
| Wisconsin | 1994 | Practice Regulation | None | No | |
| Wyoming | 1997 | Practice Regulation | Authorized (but not implemented) | No | Grandfathering ended 7/98 |

* geophysicists are registered separately

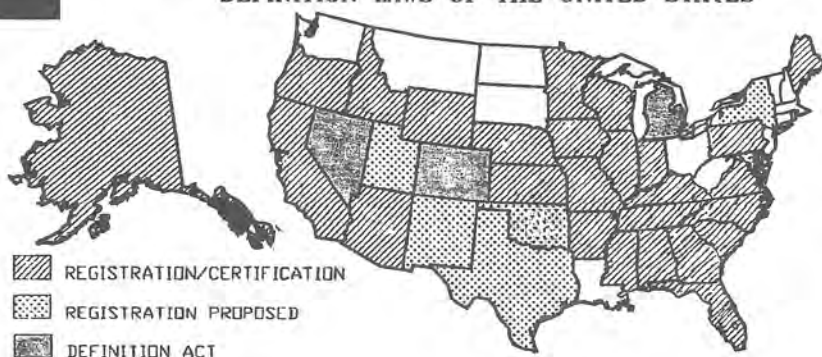
U.S. Territories with Geological Registration/Licensure Laws

| | | | | | |
|-------------|------|---------------------|------|----|--|
| Puerto Rico | 1997 | Practice Regulation | None | No | |
|-------------|------|---------------------|------|----|--|

Overview of States with Certification Requirements

| STATE | DATE ENACTED | FORM OF LEGISLATION |
|---------------|--------------|-----------------------|
| Connecticut | NA | Partial Certification |
| Iowa | NA | Partial Certification |
| Massachusetts | NA | Partial Certification |
| Missouri | NA | Partial Certification |
| Nevada | NA | Partial Certification |
| New Jersey | NA | Partial Certification |
| Texas | NA | Partial Certification |
| Indiana | 1997 | Full Certification |

CURRENT GEOLOGICAL REGISTRATION-CERTIFICATION-DEFINITION LAWS OF THE UNITED STATES



DECEMBER 1998 MEETING SCHEDULE

| SUN | MON | TUE | WED | THU | FRI | SAT |
|-----|----------------------------------|---------------------------------|----------------------------------|--------------------------------|-----|-----|
| | | 1 MGS OFFICER- MEETING | 2 D & D OFFICER MEETING | 3 SIPES LUNCH MEETING | 4 | 5 |
| 6 | 7 | 8 MGS LUNCH MEETING | 9 D & D LUNCH MEETING | 10 | 11 | 12 |
| 13 | 14 MAPL EVENING MEETING | 15 | 16 O&G BD. | 17 | 18 | 19 |
| 20 | 21 | 22 | 23 | 24 | 25 | 26 |

OTHER 1998 MEETINGS : Annual Meetings

AAPG April 11-14 San Antonio; SPWLA May 25-28;
 GCAGS Sept 15-17 Lafayette; SPE Sept 27-30; SEG Sept;
 GSA Oct 25-28 Denver; AIPG Oct; AEG Oct; Mid Cont Oct;
 MIPRO Nov

MGS ADVERTISING NOTICE !

It is time to place or renew your advertisement in the MGS Bulletin. Our Board of Directors voted to change the advertising year (currently the calendar year) to coincide with the Society's business year which runs from June through May. In an effort to make a smooth transition to this change and for your convenience we are offering two options: (1) pay on a prorated basis for your ad to run from January through May, 1999 (you will be billed again next summer for the next full business year), or (2) pay for 17 months of advertising to run from January 1999 through May 2000. The specific ad sizes, prices, and options are outlined below. Please note there has been no price increase, just proration of our already bargain rates. Please submit your camera ready ad and payment by December 10, 1998 to: **Mississippi Geological Society**

P.O. Box 422, Jackson, MS 39205-0422

| Run same size ad as last year check here if ad is same as last year | Jan-May 1999 | Jan 1999 - May 2000 |
|--|-----------------|------------------------|
| 1/2" x 3 1/2" | \$ 20.00 | \$ 60.00 |
| 1" x 3 1/2" | \$ 37.50 | \$112.50 |
| 1 3/4" x 2 1/2" ** | \$ 40.00 | \$120.00 |
| 1 7/8" x 3 1/2" ** (business card) | \$50.00 | \$150.00 |
| 1 3/4" x 4 1/2" ** | \$75.00 | \$225.00 |
| 4 1/2" x 3 1/2" ** (quarter page) | \$100.00 | \$300.00 |
| 4 1/2" x 7 1/2" ** (half page) | \$150.00 | \$450.00 |
| 9" x 7 1/2" ** (full page) | \$250.00 | \$750.00 |

** camera ready copy required for these sizes - new or changed ad only

MISSISSIPPI GEOLOGICAL SOCIETY MEMBERSHIP APPLICATION / RENEWAL

PO BOX 422, JACKSON, MISSISSIPPI 39205-0422

Membership year is June through May

CIRCLE ONE OF THE FOLLOWING:

New Membership - Renewal - Student - Associate (Member & Associate - \$20/yr., Student - \$5/yr.)

LAST NAME: _____ FIRST NAME: _____ MI: _____

MAILING ADDRESS: _____

CITY: _____ STATE: _____ ZIP CODE: _____

Office Phone : _____ Home Phone : _____

E-mail Address: _____ FAX: _____

College/University Attended: _____

Degree(s) Obtained, and year(s) awarded: _____

List Professional Associations, Certification, & License: _____

APPLICANT'S SIGNATURE: _____

**EASTERN GULF REGION
PETROLEUM TECHNOLOGY TRANSFER COUNCIL**

Software Demonstration Workshop

*“Modeling Petroleum Systems in BasinMod®:
Application to the Mississippi Interior Salt Basin”*

**Wednesday, December 2, 1998
9:00 a.m.—12:00 noon**

**267 Bevill Building
University of Alabama Campus**

**Tuscaloosa, AL 35487
Telephone: (205) 348-6569**

The Eastern Gulf Region of the Petroleum Technology Transfer Council invites oil and gas producing and related companies operating in Mississippi, Alabama and Florida to participate in a Software Demonstration Workshop entitled, “Modeling Petroleum Systems in BasinMod®: Application to the Mississippi Interior Salt Basin”. The purpose of the workshop is to provide an introduction to integrating sedimentary basin analysis and thermal maturity studies within the framework of the petroleum system through the software package (BasinMod® 1-D, 2-D, and BasinView™) developed by Platte River Associates, Inc. This suite of software is one of the principal petroleum system modeling computer packages used by petroleum companies in the United States.

Topics to be discussed at the workshop include (1) an introduction to the concepts of the petroleum system and how they are applied in BasinMod®, (2) a step-by-step demonstration of BasinMod® 1-D, 2-D, and BasinView™ software, and (3) examples from the Mississippi Interior Salt Basin being studied at the Center for Sedimentary Basin Studies at the University of Alabama. This research has been funded by the National Petroleum Technology Office of the U.S. Department of Energy. The PTTC is primarily funded by the U.S. Department of Energy Office of Fossil Energy.

It is essential that we have an accurate accounting of those who plan to attend the workshop. Therefore, we request a reply no later than November 25, 1998. There is no charge for the workshop. Send reply to:

Department of Geology
Box 870338, University of Alabama
Tuscaloosa, AL 35487-0338

or

Telephone: (205) 348-6569
Fax: (205) 348-0818
E-mail: bpanetta@wgs.geo.ua.edu

Workshop Registration Form—December 2, 1998

Name: _____
(last) (first) (middle)

Preferred Name on Badge: _____

Affiliation: _____

Mailing Address: _____

City: _____ State: _____ Zip: _____

Telephone: _____ Fax: _____ E-mail: _____

MISSISSIPPI GEOLOGICAL SOCIETY MEMBERSHIP APPLICATION / RENEWAL

PO BOX 422, JACKSON, MISSISSIPPI 39205-0422

Membership year is June through May

CIRCLE ONE OF THE FOLLOWING:

New Membership - Renewal - Student - Associate (Member & Associate - \$20/yr., Student - \$5/yr.)

LAST NAME: _____ **FIRST NAME:** _____ **MI:** _____

MAILING ADDRESS: _____

CITY: _____ **STATE:** _____ **ZIP CODE:** _____

Office Phone : _____ **Home Phone :** _____

E-mail Address: _____ **FAX:** _____

College/University Attended: _____

Degree(s) Obtained, and year(s) awarded: _____

List Professional Associations, Certification, & License: _____

APPLICANT'S SIGNATURE: _____

It's time to renew your membership !

*Please fill out the form above and return to the
MGS address listed at the top of the form.
Remember to include your check !*

*Thanks,
the MGS Board*

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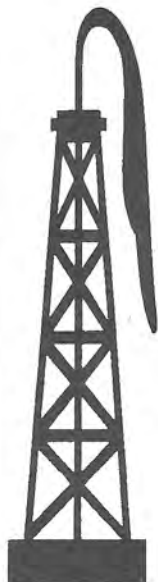
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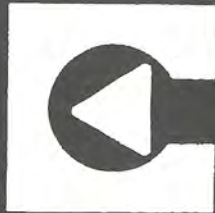
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Mesozoic-Paleozoic Producing Areas of Mississippi and Alabama, Volume II, Maps and producing data on 146 fields, in ring binder, 361 p., 1963-1980.

MGS 003SV\$50.00

Volume II In Separate Sections:

Volume II, Includes Supplement 1, Maps and Producing data on 77 fields, 143 p., 1963.

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Volume II, Supplements 2 through 7, Maps and producing data on 35 fields, 110 p., 1964-1972.

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Volume II, Supplement 8, Maps and producing data on 34 fields, 108 p., 1980.

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Mesozoic-Paleozoic Producing Areas of Mississippi and Alabama, Volume III, Includes discovery, structural, and lithologic summaries along with reservoir parameters and production data on 55 selected fields. Each field summary is accompanied by a structure map and a type log. In three-ring binder, 166 p., December, 1986.

MGS 007SV\$50.00

Supplement for Volume III, Contains information, structure contour maps, and type logs on 19 fields—six in Alabama, two in Florida, and eleven in Mississippi. 45 p., 1992, heavy stock, punched for binder.

MGS 008SV\$25.00

Oil in the Deep South, A History of the Oil Business In Mississippi, Alabama, and Florida, 1859-1945, by Dudley J. Hughes. A statistical and chronological summary of the evolution of the petroleum business in the southeastern United States. Includes personal stories of the companies, entrepreneurs, promoters, investors and workers who played major roles in the development of the oil business from its inception in the early 1900s to 1945. Hardbound book, 267 p., 1993.

MGS 020SV\$35.00

FIELD TRIP GUIDEBOOKS

Upper Cretaceous Outcrops, Northeast Mississippi and

West Central Alabama, 14th Field Trip, 29 p., May, 1959.

MGS 101 G\$4.00

Recent Sedimentation on Horn Island, Mississippi and Stratigraphy of the Quaternary and Upper Tertiary of the Pasacoula Valley, Mississippi, 10th Annual GCAGS Meeting, 24 p., 1960.

MGS 103G\$2.50

The Paleozoics of Northwest Arkansas, 16th Field Trip, 48 p., May, 1962.

MGS 104G\$5.00

Mississippian Rocks of the Black Warrior Basin, 17th Field Trip, 79 p., April, 1978.

MGS 105G\$8.00

Tertiary and Upper Cretaceous Depositional Environments, Central Mississippi and West-Central 33rd Annual GCAGS Meeting, 40 p., 1983.

MGS 106G\$7.50

The Cretaceous Chalk of the Starkville Area, Northeast Mississippi, by Ernest E. Russell and Stewart W. Welch, co-authors. Contains articles and road log for two-day field

trip. 18th Field Trip Guidebook, 69 p., April, 1991.

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Composite Mesozoic Log of South Mississippi and South Alabama.

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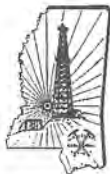
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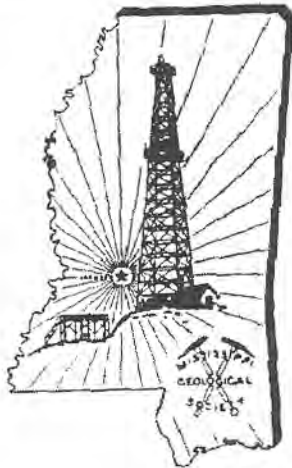
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VOLUME 47

NUMBER 5

JANUARY, 1999

PRESIDENT'S LETTER

by Rick L. Ericksen

A new year—new beginnings and New Year's resolutions. I would like to thank Stanley King who was chairman of the Annual Xmas Party, as well as thanking the Desk & Derrick Club for providing the poinsettias which were given as door prizes as drawn out of the crystal bowl by Connie Bush. I think everyone who attended was not disappointed in the food nor conversation.

Now on to business, I am not going to ignore the fact that current oil prices are lower than they were in 1986 and I am not going to predict the future. The domestic oil and gas industry faces a crisis of monumental proportion, nothing short of a depression. Oil prices are at 50-year lows adjusted for inflation. Many, if not all, of the leaders in the industry are rallying for state and nationwide reductions in severance tax, the creation of tax incentives, tax credits, and even the imposition of an oil import tariff.

It has been reported that the drop in oil prices is the result of an oversupply of oil on the world market which has been created by OPEC and non-OPEC nations. Significantly, many of these countries have publicly admitted that their actions may eliminate marginal production in the U.S. Further, in a letter written in June, 1998 by George Yates (Chairman of IPAA) and Stephen D. Layton (President of the National Stripper Well Association), to the U.S. Secretary of Energy, Federico F. Peña, they noted six initiatives designed to stimulate domestic production. Their letter pointed out the ever increasing regulatory costs imposed on America's oil and natural gas producers which accounts for a significant portion of operating costs. It has been estimated that annual environmental regulatory compliance costs alone were nearly \$1.6 billion in 1996. Yates and Layton go on to say that nearly two-thirds of the marginal wells, which represents more than 200 million barrels of annual production, (which is also roughly equal to what the U.S. imports from Saudi Arabia), could be forever lost if prices remain low. They urged the Administration to support production cuts in countries like Saudi Arabia to stabilize prices and prevent the loss of thousands of jobs in the U.S. without negatively affecting the continued growth of the U.S. economy. Remember that this letter was written in June of last year.

I urge you to support the efforts on the state level by the

Mid-Continent Oil & Gas Association and others to have the Mississippi State Legislature pass legislation favorable to the oil and gas industry in light of the current, intolerably low prices. I also further urge you to actively support the efforts of other like-minded organizations on a national level to compel our Administration and Congress to act affirmatively in providing tax relief for marginal oil and gas producers. Please see the letter written by Tony Stuart et al, (Tony is the Chairman of the local Society of Independent Professional Scientists), which was sent to Senator Trent Lott.

Also included in this bulletin are two short updates provided by the Legislative-Governmental Affairs and the Water Resources Committees. Please take the small amount of time required to read them - they have some very interesting and important information. *(continued on page 3)*

MGS Professional Luncheon Topic & Speaker, January 12th

A Case Study In The Jurassic Reef Trend - East Texas

presented by: Curt B. Bateman

***The meeting will be held at the Capitol Club
January 12th from 11:30 to 1:00 p.m.***

A seismic stratigraphic analysis using Stratimagic was performed on Sonat's Beargrass 3-D seismic survey located in the prolific "reef trend" of East Texas. Fifteen seismic anomalies had been identified and drilled during 1996-1997. Production characteristics of these individual reef varied dramatically indicating pervasive reservoir heterogeneity. Conventional seismic attribute analysis, while useful in delineating the distribution of reefal buildups, was unsuccessful as a tool to characterize differences in reservoir performance. Stratimagic facies map was used to classify the trace shape of the reef interval into fifteen different classes. Modifying the color palette to highlight reefs with similar trace shape to the highly successful Fountain anomaly gave a good correlation *(continued page 3)*

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 October 6th
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 December 1st
 January 5th
 February 2nd
 March 2nd
 April 6th
 May 4th

Professional Meetings

September 18th PTTC Workshop & Fall BBQ
 October 13th Moncrief — Tuscaloosa Marine Shale
 November 10th Rick Major-GeoChem Tracers-Dolom
 December 8th Christmas Party, Tuesday 8th
 January 12th Jurassic Reef Trend — Curt Bateman
 February 9th Professional Ethics — Bob Sellers
 March 9th TBA
 April 13th TBA
 May 14th Spring Fling & Officer Elections

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President's Letter Continued:

The Water Resources Committee has been hard at work and it is anticipated that they will have a forthcoming position paper concerning the water resources of this state. Again my thanks to those who are serving on each.

Another important announcement for those of you who desire to take a proactive stance in your profession. A new association was formed in November of last year - the Mississippi Association of Geologists. I have been informed that this group will be actively involved in matters affecting our profession and will engage in lobbying efforts when and if needed during the legislative year. This group provides a long needed and missing component in the geologic profession infrastructure in Mississippi. There are no dues or fees to be a member of this organization. If you are interested, please contact Mike Noone, Steve Jennings, or Lindsey Stewart for additional information and the yet to be announced date of the next meeting of MAG.

If you see me at the January Luncheon meeting, it means that I survived the rush of those sending in applications to "grandfather" under the provisions of the Geologists Practice Act of 1997. Since this letter was written prior to the December 31 deadline, I have no way to relate the real number of those who applied for registration. However, based on the ever increasing pile of daily mail, I have come to believe that there are more procrastinators than I once thought - sort of like April 15th and tax filings.

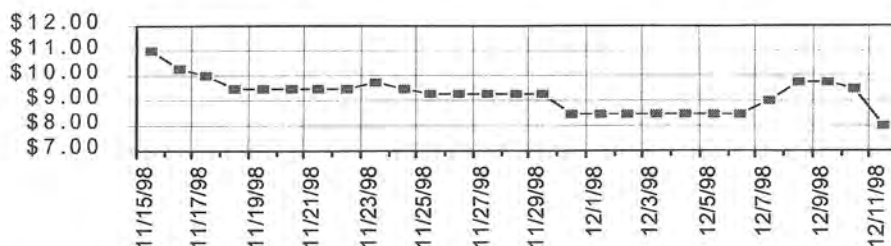
Next month's president's letter may include more information concerning the Mississippi State Board of Registration for Professional Engineers and Land Surveyors (see the report of the Legislative/Governmental Affairs Committee). But I would be remiss at this point not to mention at least one thing. The RPG Board has made multiple attempts to re-open discussions on a generic MOU (Memorandum of Understanding) with the PE Board. MOU discussions were terminated by the PE Board when it flatly rejected a MOU nearly identical to the one adopted by the Alabama geology and

Monthly Oil Price Chart

George Vockroth has supplied the following daily oil price data to illustrate the degree of daily price fluctuations

Note: East Mississippi is \$3.50 below WTI; West Mississippi is \$.75 below WTI

West Texas Intermediate Crude



engineering boards. The RPG law specifically states that a MOU is to be sought with the PE Board. Sought is defined, according to every dictionary I've seen, as attempt. And the RPG Board has made attempt after attempt with no success so far - the MOU is the issue which needs to be resolved and not held hostage to other demands being made by the PE Board. This issue needs to be concluded. The RPG Board is ready, willing, and able to move forward on this matter if ever given the opportunity to do so. More (or less) on this next time.

Until next time —

Rick L. Ericksen

MGS Environmental Section Meeting January 19th

The Environmental Geology Section meets every third Tuesday of every odd month at Southport Mall in the DEQ Commission Hearing Room from 11:45 to 1:00. Our next meeting will be January 19th - speaker to be announced. Contact Pat Phillips (961-5213) or Steve Jennings (961-5205) for details.

Speaker & Topic Continued :

between high rate and low rate anomalies. This analysis quickly and accurately begins to characterize the differences between individual stratigraphic reservoir bodies to be used not only in future field development but also as a pre-drill tool for trend exploration.

Speaker Info :

Curt Bateman is currently a Senior Geophysicist with Sonat Exploration in Tyler, Texas working the East Texas and North Louisiana salt basins. Previously, his experience included 15 years with Exxon Exploration and Production in a variety of domestic and international assignments. His technical areas of expertise are structural style analysis and seismic stratigraphy.



Geology & Industry News Briefs :

Jeff Lundy has supplied the following energy brief on domestic integrated oil covering the period of November 30, 1998 though December 2, 1998.

Jeff is a long time MGS member currently working with Edward Jones Investments — 601-853-0044.

- ⇒ Oil prices remain volatile and headed lower short-term. Earlier increases were due to short-term supply problems.
- ⇒ OPEC failed to reach agreement on any additional cutbacks at their meeting on 11/25-26. Next meeting is in March. OPEC hopes cold winter weather will solve the oversupply problem before then.
- ⇒ We continue to recommend the major oil companies - AN, XON, MOB+, RD. Prices are up due to merger anticipation. All 4 are good long-term buys but are likely to be hurt by low oil prices in the short-term.
- ⇒ Oil services/oil drillers are down 40-80%. They are aggressive, volatile and may drop again as oil companies make additional cuts in exploration budgets and oil prices fall. Careful selection needed.

For the past year, the price of oil has been low and volatile. Oil prices reached a 10-year low in March, and then hit a 12-year low in mid-June. Although OPEC & non-OPEC cuts raised prices through mid-November, oil prices are now back below \$12 per barrel, again at 12 year lows. Adjusted for inflation, oil prices are about the same level as before the first oil shock in 1973. Low oil prices are due to :

- increased OPEC and non-OPEC production, particularly Iraq,
- and reduced demand due to the economic slowdown in Asia.

Crude oil inventories have risen significantly in 1998, despite the agreement in March to reduce oil production by about 1.7 million barrels per day. In June, additional cuts were announced, for a total reduction of 2.6 million barrels per day, but the oil market yawned.

It looks like OPEC made 80-85% of the 2.6 million barrel per day production cuts in August and September and above 95% in October. With supply exceeding demand by about one million barrels per day and inventories continuing to swell, oil prices appear to be headed lower. Some are forecast-
ing less than \$10 per barrel short-term.

Keys to higher oil prices: (1) a cold winter; (2) flat or rising demand in Asia; (3) Another round of OPEC cuts or better compliance to current targets; and (4) at least moderate economic growth in US, Canada, Europe. Wild cards are Iraq's production and the outcome/effect of the election in Venezuela on December 6. And production disruptions (like we saw in Nigeria in October) could help push prices up for a short time.

If the Asian crisis deepens, then oil prices will stay low longer, and it will probably require another round of production cuts, to push the price of oil higher. Over the next 2-5 years, as Asian economic growth resumes, oil prices are expected to return to the \$17-\$21 range of the past 10 years.

Economic turmoil in Russia had many wondering whether Russia will increase oil exports and worsen the oil glut. Russia's exports have been about 2.2 million barrels of oil per day. This is close to the maximum they have the capacity to export, and to export more requires cutbacks in domestic oil consumption. Fears that Russia will flood the world are overblown.

Prices of the major oil companies, like Exxon (XON: 74 3/4), Royal Dutch/Shell (RD: 47 1/4), Mobil (MOB+: 85 1/4), and Amoco (AN: 59 3/4) have not been hit as hard by the oil price drop as other segments of the industry. In addition to finding & producing oil & gas, they refine & sell gasoline and other oil products to consumers, which are business that generally benefit from

low oil prices. However, third quarter results were terrible, since the glut in crude oil spilled over into a glut in refined product in July and August, pulling down refining earnings in the US and Asia. Fourth quarter isn't likely to look much better. But these companies pay attractive dividends & have good growth opportunities. We have BUY ratings on all four. RD has dropped 20% because its results are at the bottom of the group. Long-term, RD will get its costs down & will remain a top player in the industry. RD is currently a supervalued on a supermajor.

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Geology & Industry News Briefs : (News Summaries with Periodical Credits)

Industry Crisis Action Plan launched for U.S. Independent Petroleum Producers.

In response to the current crisis in the exploration, production, and service sectors of the domestic petroleum industry, the Petroleum Technology Transfer Council (PTTC) will structure most, if not all, of its planned 1999 activities to address survival needs of the industry. PTTC's crisis plan for U.S. independents was developed during a December 6, 1998 joint meeting between its Board and regional directors in Salt Lake City.

PTTC Chairman Robert Nance advises the industry that everyone involved with PTTC is keenly aware of the crisis, and many believe it is the most severe depression this industry has seen in decades. Nance dedicated the organizations resources and activities toward helping as many individual producers and companies survive.

Past Chair Chris Hall reported that since 1997, crude oil prices have been dramatically lower than those in previous years. Although some advances in technology have helped reduce costs, the price of crude oil remains at historic 50-year lows, when adjusted for inflation. In many regions of the country, much of the existing oil production is uneconomic to produce at current prices. Failure to take immediate and substantial action to remedy the current crisis will lead to significant segments of the U.S. production industry shutting down, with a resultant loss of jobs, revenue, and future energy supplies.

The Industry Action Crisis Plan will keep PTTC's regional technology workshops focused on survival methods such as improving cost efficiencies and identifying "best practices" for operating under economic crisis conditions. These activities will be targeted, as much as possible, to address specific technical needs of producers in each of PTTC's 10 regions.

In addition, PTTC plans to compile a report that aggregates the result of statistical evidence and insights from studies performed by various industry-related organizations that address the effect of the crisis on the industry.

For more information on PTTC's pro-

grams and activities to help domestic independent producers, call 1-888-THE-PTTC or log on to www.PTTC.org

Ernie Mancini, PTTC Eastern Gulf Region Director, advises that a workshop on Surface Hydrocarbon Detection is planned for Jackson, Mississippi, February 10, 1999 -- call 205/348-6569

MGS Water Resources Committee

George Vockroth reported to the MGS Board that members of the committee had attended several meetings of the Mississippi Water Resources Council [Mississippi Dept. of Environmental Quality provides staff support (MDEQ)]. George pointed out that the Council is preparing to do an in-depth study on each of Mississippi's river basins (water sheds) — investigating what goes in and out, and compiling other pertinent data as well.

The Council currently has **NO** seated geologist as a member, but they have welcomed input from outside sources for these important "water shed" studies (first ever for MDEQ). MGS will continue to attend, providing critical review of the process and to ensure that geological input is considered in the interest of the public.

MGS Legislative Committee

Mike Noone advises us that the Mississippi Board of Engineers, Mississippi Engineering Society, and the Council of Consulting Engineers is upset with the Board of Geology over the "task list" sent out to notify government and private entities which may be effected by the 1997 Geologic Practice Act (the task list was published in the MGS October Bulletin). The geology "task list" is based solely on formal education, training, and experience; and thereby provides a legally defensible base for environmental work in both the public and private sectors. These engineering groups have begun a campaign to challenge the/our "practice of geology" and your support will be needed this legislative year.

O&G Journal

Insurers continue to work on what will be

included in coverage and how to cover Y2K date-change problems in the energy industry — reinsurance policies are renewed on January 1st each year. It has been estimated that 10-15% of the embedded computer chips used in production systems have a date function which could be effected — and some offshore production platforms utilize up to 40,000 chips in their daily production activities. The problem with the Year 2000 risk assessment is that the insurance industry traditionally calculates risk, in part, on the basis of experience — and there has been no past experience with a problem like Y2K.

TVA has partnered with the utilities department of New Albany, Mississippi to manage gas purchasing, storage, and transportation for the public utility. TVA also plans to partner with other local power distributors to reduce natural gas costs and will offer a range of services to distributors, including fuel purchase and management. In all, TVA will use natural gas to fuel 48 of its combustion turbines by mid-1999, compared to the 28 currently in use.

Coal Age

The Center for Energy and Economic Development (CEED) counters rhetoric from environmental extremists who blame the U.S. for allowing "dirty" power plants to operate, which cause air quality problems in areas of the country. Such activists have also promoted the belief that state compliance plans have not taken sufficient consideration of future increases in coal-fired power generation.

CEED has challenged the rhetoric in a prepared report -*The Myth of the Dirty Power Plant*, which points out that the Clean Air Act prohibits U.S. power plants from operating if they exceed national ambient air quality standards. The report uses charts, graphs, and texts to demonstrate how the Clean Air Act has provided a successful framework for achieving national air quality goals and how coal-fired power is included in future power generation. The report is available free by calling CEED at 703/684-6292.



Society of Independent Professional Earth Scientists
P.O. Box 135

Jackson, Mississippi 39205



MISSISSIPPI CHAPTER

September 10, 1998

Ms. Beth Miller
C/O Senator Trent Lott
487 Senate Russell Building
Washington, DC 20510

Dear Ms. Miller:

As Chairman of the Mississippi chapter of the Society of Independent Professional Earth Scientists, I have been asked to contact you regarding some of the serious issues currently affecting the domestic oil industry.

All of the major oil companies have already left Mississippi. Most of them are now producing much of their oil from overseas and importing it for refining and marketing. The vast majority (approximately 90%) of the domestic energy business is now conducted by small, independent companies. Many of the remaining companies and individuals in this industry are either sharply curtailing their business, or are being forced out of business completely. This is caused by several factors, the most important of which is the low oil prices which have prevailed for the past several years.

We strongly feel that the domestic energy industry is vitally important to both Mississippi and to the nation as a whole. Under the current conditions, the oil and gas reserves which have been, and are being depleted, are not being replaced by new exploration. In 1997, the total oil production for Mississippi was 21 million barrels, which is approximately equal to our production rate in 1944. For comparison, our state production peaked in 1971 at approximately 66 million barrels.

Our nation is largely dependent upon imported oil. If the supply of foreign oil is interrupted, the operational status of our domestic industry is so weak that we could not hope to adequately respond with substantially increased production for several years. We would then experience an energy crisis of the most severe magnitude.

In view of these factors, our industry needs immediate assistance from our government in order to survive. We submit the following recommendations for your (and Senator Lott's) consideration:

1. Senator Lott should support reinstating the embargo on purchasing oil from Iraq. If the media is to be believed, Iraq is not complying with UN demands, therefore, the embargo should be reinstated. Iraq is currently producing approximately 2 million barrels of oil per day to the world market. Removal of this oil from the market would increase world oil prices to a more reasonable level.
2. The tax depletion allowance should be increased. The depletion allowance is now 15%. An increase to 30% would help some producers survive who might not be able to do so otherwise.
3. Tax incentives for new drilling are needed. New drilling is the only way to replace reserves which are being depleted. These incentives need to include both wildcat and development wells. Wildcat wells are drilled to discover new fields. Development wells are drilled to increase reserve recovery in old fields. Both are vitally important in the replacement of reserves.
4. A tariff should be imposed on imported oil. We are aware that this is by far the most drastic of these requests. However, if our government believes that the domestic energy industry is economically and strategically important, then an import tariff is necessary to keep the industry alive.

We are currently presenting these recommendations to several other state and national petroleum oriented organizations in order to generate an industry-wide effort.

Please review these issues and pass our concerns and recommendations along to Senator Lott. If you have any questions or need any additional information, please contact me as follows:

Tony Stuart
207 3rd Avenue
Hattiesburg, MS 39401
Phone: 601/543-0500
Fax: 601/543-0501
E mail: trstuart@netdoor.com

Sincerely,



Tony Stuart
Chairman, Mississippi SIPES Chapter

JANUARYR 1999 MEETING SCHEDULE

| SUN | MON | TUE | WED | THU | FRI | SAT |
|-----|----------------------------------|---------------------------------|----------------------------------|--------------------------------|-----|-----|
| | | | | | 1 | 2 |
| 3 | 4 | 5 MGS OFFICER- MEETING | 6 D & D OFFICER MEETING | 7 SIPES LUNCH MEETING | 8 | 9 |
| 10 | 11 MAPL EVENING MEETING | 12 MGS LUNCH MEETING | 13 D&D LUNCH MEETING | 14 | 15 | 16 |
| 17 | 18 | 19 MGS ENVIR MEETING | 20 O&G | 21 | 22 | 23 |

OTHER 1998 MEETINGS : Annual Meetings

AAPG April 11-14 San Antonio; SPWLA May 25-28;
 GCAGS Sept 15-17 Lafayette; SPE Sept 27-30; SEG Sept;
 GSA Oct 25-28 Denver; AIPG Oct; AEG Oct; Mid Cont Oct;
 MIPRO Nov

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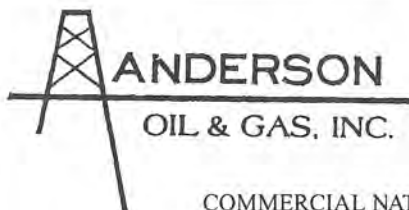
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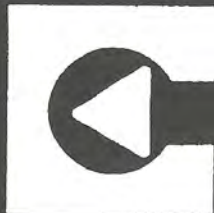
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MGS 001SV\$28.00
Mesozoic-Paleozoic Producing Areas of Mississippi and Alabama, Volume II, Maps and producing data on 146 fields, in ring binder, 361 p., 1963-1980.

MGS 003SV\$50.00
Volume II In Separate Sections:

Volume II, Includes Supplement 1, Maps and Producing data on 77 fields, 143 p., 1963.

MGS 004SV\$15.00
Volume II, Supplements 2 through 7, Maps and producing data on 35 fields, 110 p., 1964-1972.

MGS 005SV\$25.00
Volume II, Supplement 8, Maps and producing data on 34 fields, 108 p., 1980.

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Mesozoic-Paleozoic Producing Areas of Mississippi and Alabama, Volume III, Includes discovery, structural, and lithologic summaries along with reservoir parameters and production data on 55 selected fields. Each field summary is accompanied by a structure map and a type log. In three-ring binder, 166 p., December, 1986.

MGS 007SV\$50.00
Supplement for Volume III, Contains information, structure contour maps, and type logs on 16 fields—six in Alabama, two in Florida, and eleven in Mississippi. 45 p., 1992, heavy stock, punched for binder.

MGS 008SV\$25.00
Oil in the Deep South, A History of the Oil Business in Mississippi, Alabama, and Florida, 1859-1945, by Dudley J. Hughes. A statistical and chronological summary of the evolution of the petroleum business in the southeastern United States. Includes personal stories of the companies, entrepreneurs, promoters, investors and workers who played major roles in the development of the oil business from its inception in the early 1900s to 1945. Hardbound book, 267 p., 1993.

MGS 020SV\$35.00

FIELD TRIP GUIDEBOOKS

Upper Cretaceous Outcrops, Northeast Mississippi and

West Central Alabama, 14th Field Trip, 29 p., May, 1959.

MGS 101G\$4.00

Recent Sedimentation on Horn Island, Mississippi and Stratigraphy of the Quaternary and Upper Tertiary of the Pasacoula Valley, Mississippi, 10th Annual GCAGS Meeting, 24 p., 1960.

MGS 103G\$2.50
The Paleozoics of Northwest Arkansas, 16th Field Trip, 48 p., May, 1962.

MGS 104G\$5.00
Mississippian Rocks of the Black Warrior Basin, 17th Field Trip, 79 p., April, 1978.

MGS 105G\$8.00
Tertiary and Upper Cretaceous Depositional Environments, Central Mississippi and West-Central 33rd Annual GCAGS Meeting, 40 p., 1983.

MGS 106G\$7.50
The Cretaceous Chalk of the Starkville Area, Northeast Mississippi, by Ernest E. Russell and Stewart W. Welch, co-authors. Contains articles and road log for two-day field

trip. 18th Field Trip Guidebook, 69 p., April, 1991.

MGS 107G\$10.00

COMPOSITE LOGS AND CROSS SECTIONS
Composite Mesozoic Log of South Mississippi and South Alabama.

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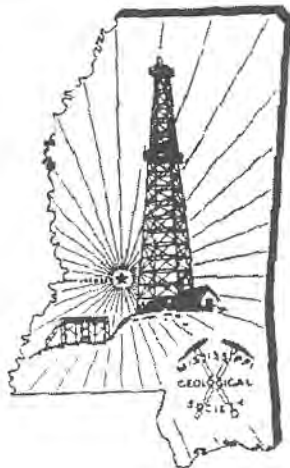
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MISSISSIPPI GEOLOGICAL

VOLUME 47

NUMBER 6

FEBRUARY, 1999

PRESIDENT'S LETTER

by *Rick L. Ericksen*

Well here goes, there are several topics which need to be addressed in this letter. First, you, the membership, will have the opportunity to hear an excellent presentation by Mr. Robert Sellars, immediate Past President of DPA/AAPG. Bob's presentation will be on the topic of professional ethics. With the current state of the oil and gas business, as well as government and regulatory agencies, ethics have never been more important than they are now. Bob is traveling here all the way from Denver so please extend to him a warm reception by attending this MGS meeting. Secondly, the MGS Executive Board, along with the contribution of an anonymous donor, has elected to present an MGS Award of Scholarship to Mr. Chad Cooper, a senior at Mississippi State University majoring in geology. Thirdly, please do not forget the PTTC meeting, which is being co-sponsored by the MGS, which is to be held at the Capital Club on Wednesday, February 10th the day after our noon luncheon. Please see the colored insert page with the registration form - this bulletin.

The following are excerpts from information sent to me via Tony Stuart, Chairman of the Jackson Chapter of SIPES. SIPES has been communicating with Senator Lott's office concerning the issue of low oil prices. There now has been legislation proposed which is to be co-sponsored by Senator Lott. The proposed U.S. Energy Economic Growth Act is supposed to provide "significant incentives" to help marginal producing properties. The most significant of these incentives include:

- A maximum \$3.00 per barrel tax credit for the first 3 barrels of daily production from existing marginal oil wells - less than 15 Bbbls per day, or producing heavy oil (heavy oil is not defined).
- A maximum \$0.50 per Mcf tax credit for the first 18 Mcf of daily gas production from existing marginal gas wells - less than 90 Mcf per day.
- These tax credits are to phase in and out between \$14 and \$18 oil prices and \$1.40 to \$1.80 gas prices.

Further, the following is a list of revised recommendations that has been forwarded by SIPES to Senator Lott's office:

1. We (SIPES) recommend reinstating the embargo on purchasing oil from Iraq. We have been importing oil directly from Iraq

to the U.S. at the same time that we have been conducting military operations against them. To those of us in the oil industry who are facing the loss of our jobs and businesses, it is unacceptable for our government to place us in commercial competition with a hostile government.

2. The tax depletion allowance should be increased. The depletion allowance is now 15%. An increase to 30% would help some producers survive who might not be able to do so otherwise.

3. Tax credit for production from new wells is needed. New drilling is the only way to replace reserves which are being depleted. A substantial tax credit for production from wells less than 5 years old would make it economically feasible to drill and operate new wells to replace domestic reserves. In the late 1980's, the tax credit program for tight gas sand production was significant in helping to offset the cost of drilling for and producing from low volume natural gas reservoirs. A similar tax credit program for all domestic on-shore wells (*continued page 3*)

MGS Professional Luncheon Topic & Speaker, February 9th

Categories of Ethical Behavior

*The meeting will be held at the Capitol Club
February 9th from 11:30 to 1:00 p.m.*

Ethical issues and conduct in the professional work place are receiving increased interest. This is true in the geosciences, including the principle areas where geologists work - government, industry and academia, but in other professions as well. Though most of us are ethical in our everyday professional practice, an increased awareness of ethical deportment is beneficial to all professional geologists and to the wellbeing of our profession.

To discuss ethics one should have an understanding of its definition and how it differs from morality. Ethics can be defined as a system of belief that is articulated, codified and philosophical in nature. The AAPG has a (*continued page 3*)

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MGS Meeting Schedules :

Officers Meetings

September 1st
 October 6th
 November 3rd
 December 1st
 January 5th
 February 2nd
 March 2nd
 April 6th
 May 4th

Professional Meetings

September 18th PTTC Workshop & Fall BBQ
 October 13th Moncrief — Tuscaloosa Marine Shale
 November 10th Rick Major-GeoChem Tracers-Dolom
 December 8th Christmas Party, Tuesday 8th
 January 12th Jurassic Reef Trend — Curt Bateman
 February 9th Professional Ethics — Bob Sellers
 March 9th TBA
 April 13th TBA
 May 14th Spring Fling & Officer Elections

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Geology & Industry News Briefs :

President's Letter Continued:

is needed to help to attract investment money into the domestic industry.

4. Market and price volatility of the magnitude that we are currently experiencing can cause wide swings in the profit and loss margins of small companies as properties are traded, sold, or abandoned. A 5 year income tax averaging program for small oil & gas exploration and production companies would help the independent companies to even out their cash flow.

5. A tariff should be imposed on imported oil. We are aware that this is by far the most drastic of our requests. However, if our government believes that the domestic energy industry is economically and strategically important, then an import tariff is now necessary to keep the industry alive. We recommend that a base price of \$18.00 per barrel be established to provide minimal protection for the American industry.

I echo Tony's et al sentiment, it is indeed very important that the proposed legislation is being considered. You can make Senator Lott aware of your support of this proposed legislation and SIPES recommendations or some of your own by sending a letter to his office at the following address: Ms. Beth Miller

C/O Senator Trent Lott
487 Senate Russell Building
Washington, DC 20510

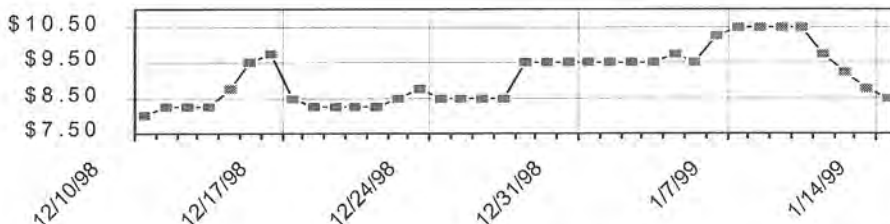
In other news I would like to mention that the Mississippi Association of Geologists (MAG) met Wednesday, January 20 and held officer elections. The officers are: Mike Noone - President, John Malanchak - Vice President, and Steve Jennings - Secretary/Treasurer. This group was formed to be active in the legislative/political arena, as well as to address regulatory and other related issues, which may affect career geologists. The MGS is not associated with this group. However, many members of MGS are also members of MAG. MAG membership is free and open to all those interested in the geological sciences. MAG is currently concerned with pending legislation which has been recently introduced in the Mississippi State Legis-

Monthly Oil Price Chart

George Vockroth has supplied the following daily oil price data to illustrate the degree of daily price fluctuations

Note: East Mississippi is \$2.50 below WTI; West Mississippi is \$.75 below WTI

West Texas Intermediate Crude



lature which may adversely impact the geologic profession. In specific, an amendment has been proposed to the Geologists Practice Act of 1997 which will weaken our law and as a result should not be considered in its present form by our legislature. Until next time —

Rick L. Ericksen

Speaker & Topic Continued :

Code of Ethics, as do other geological organizations. The language and spirit of this Code of Ethics relates to our routine professional workday activities and articulates, as a group, our system of beliefs. It encompasses a number of categories of ethical behavior.

Criminal conduct is an easily recognizable ethical issue, and is addressed in the courts as well as through AAPG's Constitution and By Laws. But, other forms of ethical misconduct and behavior such as dishonesty, bad faith, and even just plain bad manners, are seldom prosecutable and must be dealt with from within the profession. Slander can result in civil litigation, but can also be resolved in the context of professionalism.

The AAPG Code of Ethics is enforced through procedures outlined in the Constitution and By Laws. It is a member driven process. Not all of the proceedings should lead to expulsion from the Association.

In many business relationships we establish means of protection from potential ethical misconduct. These can be in the form of areas of mutual interest and performance, confidentiality and consulting agreements. However, not all relationships are put to writing. Society's expectations from the interaction among human beings is broader than what is covered, or protected, under legal action or what is written down. These expectations are not limited solely to business dealings, but extend to all forms of our professional behavior and the fulfillment of our professional responsibilities to society.

Speaker Info :

Bob Sellars is a consultant in Denver, Colorado. He received his degrees in geology from the University of Texas - BS, and Tulane University - MS & Ph.D. Bob has spent a total of 35 years in the Gulf Coast, the Rocky Mountain Basins, and Mineral exploration. Bob began his work with 2 years at Kerr-McGee, then 23 years with LL&E, afterwards he consulted for Club Oil & Gas, and has been a Denver independent for the past 9 years. Memberships include: AAPG, SEPM, NOGS, Rocky Mtn. Assoc., of Geologists, and the Wyoming Geological Assoc. Dr. Sellers has served on a variety of committees, in local and national geological societies in addition to : Past Pres. Rocky Mtn. Assoc. of Geologists; and the AAPG Division of Professional Affairs.

FEBRUARY 1999 MEETING SCHEDULE

| SUN | MON | TUE | WED | THU | FRI | SAT |
|-----|---------------------------------|---------------------------------|----------------------------------|--------------------------------|-----|-----|
| | 1 | 2 MGS OFFICER- MEETING | 3 D & D OFFICER MEETING | 5 SIPES LUNCH MEETING | 6 | 7 |
| 8 | 9 MAPL EVENING MEETING | 10 MGS LUNCH MEETING | 11 D&D LUNCH MEETING | 12 | 13 | 14 |
| 15 | 16 | 17 | 18 O&G BOARD | 19 | 20 | 21 |
| 22 | 123 | 24 | 25 | 26 | 27 | 28 |

OTHER 1998 MEETINGS : Annual Meetings

AAPG April 11-14 San Antonio; OTC May 3-6 Houston;
 SPWLA May 25-28; GCAGS/AAPG Sept 15-17 Lafayette;
 SPE Oct 3-6 Houston; GSA Oct 25-28 Denver; SEG Oct 31-Nov 5
 Houston; SIPES Oct 31-Nov 5 Houston; AIPG Oct; AEG Oct;
 Mid Cont; MIPRO ;
 International Coal Bed Methane May 3-7 Tuscaloosa;

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The MGS Directory will be published in March, so if you want to be included in that publication and continue to receive the bulletin please renew your membership immediately. The renewal form to do so is also found in this issue - just fill it out and send it to us to remain current.

The following list of MGS members need to check on their current MGS renewal status :

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FEBRUARY 10TH, 1999 !**

Editors Note :

Our membership, being primarily comprised of petroleum practitioners are, by and large, geologists. Being geologists, we also have a general interest in the various geological issues impacting our state and nation. Many of us thrive on the challenge to understand it, whether it's an oil or gas prospect, the new lignite mine in Choctaw County, a geologic outcrop at a road-cut, fossils, even including ground-water geology.

In the interest of our membership living here in Mississippi, the following water resource concerns are being reported because this issue will have an effect on you and the public at large. At this time, the public nor the geologic community is adequately informed on the pertinent issues related to Mississippi's ground-water resources — *YOU SHOULD BE !* And as usual, the "press" is not fully aware of all the issues in need of addressing — they don't even know the right questions to ask — *YOU DO!* - or can, simply because you have the geologic background which lends to a better understanding of the issues.

Get informed on the issues being investigated by our MGS Water Resources Committee (WRC). Contact either George Vockroth, Chairman WRC, or Harold Karges, Vice Chairman WRC.

P.S. — If you haven't heard, there are at least a couple of guys from the petroleum community looking into ground-water prospects — after all, current retail prices of bottled water run around \$1000 per barrel — a real good reason to look for it.

MGS Water Resources Committee Report

George Vockroth reported to the MGS Board that the Water Resources Committee (MRC) has asked MDEQ's Office of Land & Water for their water resource data used in support for DEQ's assessments of groundwater resources within the State.

The MGS Water Resources Committee is concerned with early reports (1998-199)

from Land & Water that some of Mississippi's ground-water resources are rapidly depleting. As reported in the January bulletin, the Water Resources Advisory Council, which reports to the State Legislature, currently has no "sitting" members from the geologic community. The MGS WARC is attempting to fill some of that gap.

Vockroth's concern in this matter is that the Council, having under-represented geologic input at the council-level, may overlook certain geologic parameters which could lead to erroneous conclusions about the State's ground-water resources and its availability around the state.

At the current cost of potable ground-water (drinking water at the faucet somewhere between \$10 to \$30 per month in Mississippi), ground-water still remains the most cost effective source for public consumption when compared to surface water (water piped from rivers or surface reservoirs), due to the high costs related to treatment of surface water for bacteria & parasites, high iron content, solids, pollution, and costs associated with construction and maintenance of surface reservoirs - not to mention the environmental impact that 'greenies' tend to scream about.

MGS Legislative Committee

MGS Legislative Committee Chairman, Mike Noone, reports the following —

Officers for the Mississippi Association of Geologists (MAG) are :

President Mike Noone

First Environment (601) 957-8967

VP John Mallachak

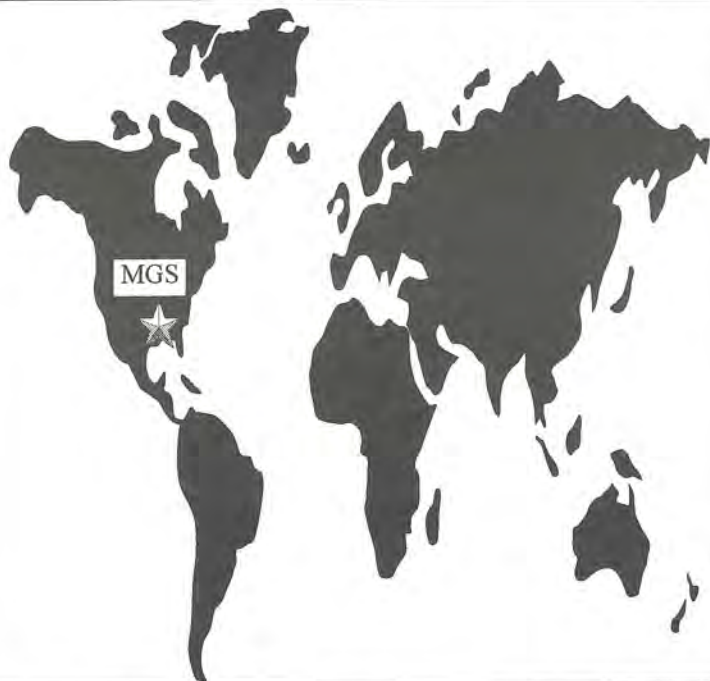
Ware Lind Furlow (601) 956-4467

Secretary Steve Jennings

MDEQ-Land & Water (601) 961-5205

MAG has actively begun a campaign of contacting legislators to express their concern with respect to Senate Bill # 2627. This legislative proposal would amend the 1997 Geologic Practice Act — effectively neutering our law at the benefit of the Engineering Board and its practitioners. This challenge from the engineering community was promised this past Fall as a few civil engineers called for full repeal of our law. This

Geology & Industry Announcements :



GCAGS Transaction on CD-ROM

The Transactions of the Gulf Coast Association of Geological Societies, from volume 1 through volume 47 (1951-1997), represented by some 20,000 pages, are being digitized and will be available on CD-ROMs in time for the 1999 GCAGS convention in Lafayette.

The text will be in HTML, and page images will be in Acrobat. The text, accompanied by Verity search engine, will be fully searchable for rapid view and retrieval. Printing is at the discretion of the user in accordance with copyright regulations.

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Geology & Industry News Briefs : (News Summaries with Periodical Credits)

amendment will allow engineers to practice geology when it is incidental to their work activities — *A VERY BAD LAW!*

Most engineering graduates never saw a geology course while at school - none are required for graduation. The proposed amendment has been submitted by an engineer in the State Legislature, to one of the committees he holds a seat on - *Business and Financial Institutes - Now doesn't that sound like the right committee to amend our law. Not the Environmental Committee or Oil & Gas Committee. Sounds real slick to me!*

Again, Mike Noone advises that the geologic community quickly contact their senators and representatives to kill this amendment — *NOW!*

Noone also reported that MAG has reviewed the current Engineering Law which is up for sunset this session. Several concerns were noted in this bill which related to changes in their law and their proposal to drop the sunset provision.

In other matters related to legislative issues, another attempt is being made to change the way MDEQ operates. As covered in the Clarion Ledger newspaper, Tuesday, January 19, 1999, proponents are pushing the same old bill which has failed over the past 5 or 6 years.

The concern discussed during the MAG meeting is not related to the hiring of the MDEQ executive director. Rather, concern was expressed regarding wording (added) in the bill — “The executive director may assign to the appropriate offices those powers and duties as the executive director deems appropriate to carry out the department’s lawful functions.” Although it’s reasonable that the executive director be able to direct the business of the agency, this particular language could (very well may) be used to eventually eliminate research at the Office of Geology and the Office of land & Water. Over the past 6 years there have been two proposals to do just that — coming from MDEQ itself. That result would mean the elimination of the Office of Geology and Land & Water — at least

the research activities which support the identification and quantification of the State’s mineral resources - whether petroleum, lignite, clays, gravel, or ground-water.

Both Land & Water, and the Office of Geology have a few regulatory sections; never-the-less, the research functions lend to the prospect of “balance” in the regulatory process — *Such is especially important in situations where research disagrees with regulatory agendas.*

For further information concerning this proposed amendment and other pending and important legislative issues which will impact you and your profession please do not hesitate to contact any of the officers, MGS or MAG.

Hart’s O&G World

Y2K continues to present problems for the national gas and oil supply. It is understood that on or after January 1, 2000, many computers and/or imbedded chips may not recognize the assigned calendar date digits 00 and will automatically revert to 99 unless new software and/or chips are installed to corrects them.

IPAA is conducting a survey to assess the impact on the national supplies. The Natural Gas Council and the American Petroleum Institute have formed an energy working group to hopefully act as the sole surveyor and to coordinate with state and federal agencies.

The natural gas industry appears to have a bright future. Power plans demand for gas is expected to triple to 9.9 Tcf by 202, when some 1,100 of every 1,300 plants will be gas-powered. Currently there is a “tidal wave” of proposed power plant construction orders, of which 90% will be gas fired requiring back-to-back supply contracts. The big winners are expected to be the large energy conglomerates.

Independents should not loose out in this mix because an additional 146,000 to 156,000 new gas wells will be needed within the next 10 years in order to meet the anticipated rise in power plant demand.

Add to that the Clinton administrations prediction that the gas market will rise to 30 Tcf by 2015, roughly a 10 Tcf jump. Industry managers believe that this prediction is inconsistent with the capabilities of the upstream to find these additional reserves in light of current high depletion rates. Some say that by 2015, 20%-25% of current production will be used up, leaving the need to replace not only the 15-16 Tcf depleted, but the remaining 10 Tcf promoted by Clinton.


Science News

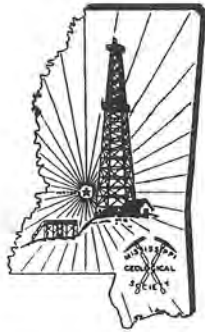
Sulfur speeds oil formation lab —

The roll of chemical reactions that turn dead plants and animals into oil is critical in the theory of crude oil formation. One key ingredient, a reactive form of sulfur, appears to be a primary link to how quickly oil forms.

Through the years of petroleum exploration, occasionally an oil company has found hidden petroleum deposits in unexpected places. These unexpected deposits tend to be sulfur rich - a condition which prompted Michael Lewan, USGS in Denver, to begin his research in 1985 by speculating that sulfur-containing organic materials turns into oil more readily than standard models predict.

Lewan initially suggested that decomposition might go faster simply because carbon-sulfur bonds split more easily than carbon-carbon bonds; however, this initial explanation did not account for the diversity of components in petroleum. He later theorized that sulfur radicals could accelerate the breakdown.

Lewan’s recent experiments have shown that a reactive form of sulfur actually speeds up oil formation by stimulating the breakdown of the hydrocarbon molecule. In his experiment, he baked a hydrocarbon — chosen to mimic a partially decomposed precursor to oil — in a closed capsule at 350° C for 3 days, with and without a sulfur compound. The compound, known to create radicals, increased hydrocarbon breakdown by more than 20%. The presence of these sulfur radicals may help explain the composition of petroleum and offer a new way of estimating the time it takes for oil deposits to form in the earth. 



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SPECIAL VOLUMES

Wilcox Fields of Southwest Mississippi, Maps and production data on 171 fields, in ring binder, 350 p., 1969.

MGS 001SV \$28.00

Mesozoic-Paleozoic Producing Areas of Mississippi and Alabama, Volume II, includes Supplements 1-8. Maps and producing data on 146 fields. In ring binder, 361 p., 1963-1980.

MGS 002SV \$50.00

Volume II in Separate Sections:

Supplement 1 for Volume II, Maps and producing data on 77 fields, 143 p., 1963.

MGS 003SV \$15.00

Supplements 2 through 7 for Volume II, Maps and producing data on 35 fields, 110 p., 1964-1972.

MGS 004SV \$15.00

Supplement 8 for Volume II, Maps and producing data on 34 fields, 108 p., 1980.

MGS 005SV \$25.00

Mesozoic-Paleozoic Producing Areas of Mississippi and Alabama, Volume III. Includes discovery, structural, and lithologic summaries along with reservoir parameters and production data on 55 selected fields. Each field summary is accompanied by a structure map and a type log. In three-ring binder, 166 p., December, 1986.

MGS 006SV \$50.00

Supplement I for Volume III. Contains information, structure contour maps, and type logs on 19 fields — six in Alabama, two in Florida, and eleven in Mississippi. 45 p., 1992, heavy stock, punched for binder.

MGS 007SV \$25.00

Supplement II for Volume III. Contains information, structure contour maps, and type logs on 19 fields — seven in Alabama, one in Florida, and eleven in Mississippi. Punched for binder, 82 pages, 1995.

MGS 008SV \$ 25.00

FIELD TRIP GUIDEBOOKS

Upper Cretaceous Outcrops, Northeast Mississippi and West Central Alabama, 14th Field Trip, 29 p., May, 1959.

MGS 101G \$4.00

Recent Sedimentation on Horn Island, Mississippi, and Stratigraphy of the Quaternary and Upper Tertiary of the Pasacoula Valley, Mississippi, 10th Annual GCAGS Meeting, 24 p., 1960.

MGS 102G \$2.50

The Paleozoics of Northwest Arkansas, 16th Field Trip, 48 p., May, 1962.

MGS 103G \$5.00

Mississippian Rocks of the Black Warrior Basin, 17th Field Trip, 79 p., April, 1978.

MGS 104G \$8.00

Tertiary and Upper Cretaceous Depositional Environments, Central Mississippi and West-Central Alabama, 33rd Annual GCAGS Meeting, 40 p., 1983.

MGS 105G \$7.50

The Cretaceous Chalk of the Starkville Area, Northeast Mississippi, by Ernest E. Russell and Stewart W. Welch, co-authors. Contains articles and road log for two-day field trip. 18th Field Trip Guidebook, 69 p., April, 1991.

MGS 106G \$10.00

Sequence Stratigraphy Principles Briefing and Field Trip, by James L. Coleman, Jr. Contains a highly-illustrated introduction to the subject with an extensive bibliography. Includes a field trip road log. 95 pages, June 1993.

MGS 107G \$10.00

The Cotton Valley Formation in Mississippi, A Symposium, Stephen M. Oivanki, Editor. Presented by the Mississippi Geological Society. Includes 10 articles on the Cotton Valley along with eight well log descriptions and accompanying E-logs. 167 pages, May, 1997.

MGS 108G \$30.00

COMPOSITE LOGS AND CROSS SECTIONS

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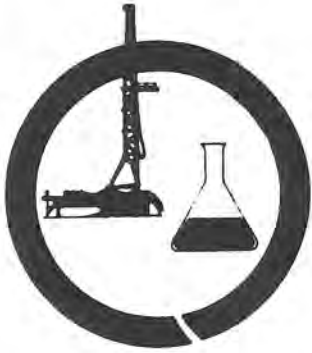
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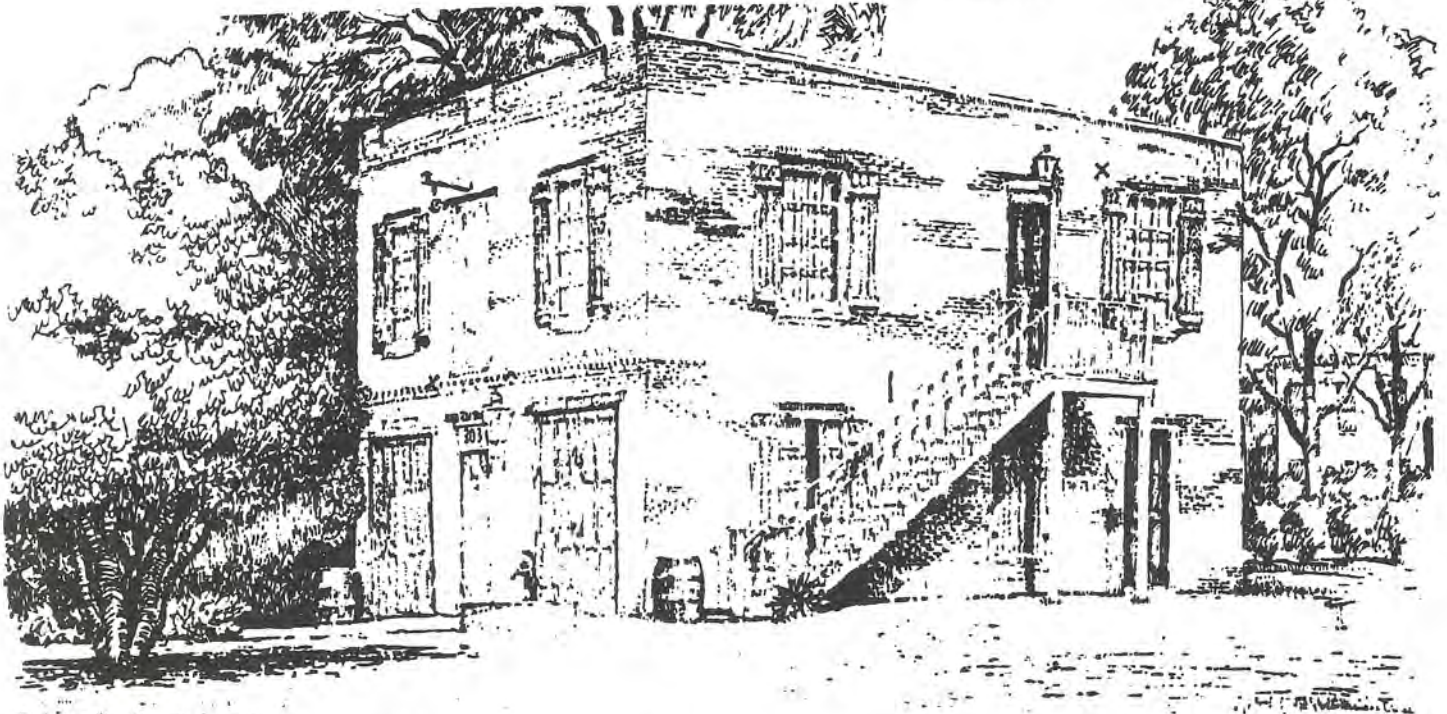
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 MGS 001SV\$28.00
Mesozoic-Paleozoic Producing Areas of Mississippi and Alabama, Volume II. Maps and producing data on 146 fields, in ring binder, 361 p., 1963-1980.
 MGS 003SV\$50.00
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Volume II, Includes Supplement 1. Maps and Producing data on 77 fields, 143 p., 1963.
 MGS 004SV\$15.00
Volume II, Supplements 2 through 7. Maps and producing data on 35 fields, 110 p., 1964-1972.
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Volume II, Supplement 8. Maps and producing data on 34 fields, 108 p., 1980.
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Mesozoic-Paleozoic Producing Areas of Mississippi and Alabama, Volume III. Includes discovery, structural, and lithologic summaries along with reservoir parameters and production data on 55 selected fields. Each field summary is accompanied by a structure map and a type log. In three-ring binder, 166 p., December, 1986.
 MGS 007SV\$50.00
Supplement for Volume III. Contains information, structure contour maps, and type logs on 19 fields—six in Alabama, two in Florida, and eleven in Mississippi. 45 p., 1992, heavy stock, punched for binder.
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Oil in the Deep South. A History of the Oil Business in Mississippi, Alabama and Florida, 1859-1945, by Dudley J. Hughes. A statistical and chronological summary of the evolution of the petroleum business in the southeastern United States. Includes personal stories of the companies, entrepreneurs, promoters, investors and workers who played major roles in the development of the oil business from its inception in the early 1900s to 1945. Hardbound book, 267 p., 1993.
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The Paleozoics of Northwest Arkansas. 16th Field Trip, 48 p., May, 1962.
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Mississippian Rocks of the Black Warrior Basin. 17th Field Trip, 79 p., April, 1978.
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The Cretaceous Chalk of the Starkville Area, Northeast Mississippi, by Ernest E. Russell and Stewart W. Welch, co-authors. Contains articles and road log for two-day field

trip. 18th Field Trip Guidebook, 69 p., April, 1991.
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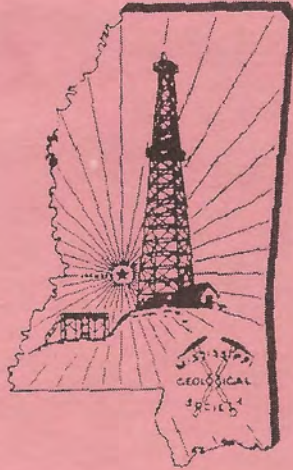
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MARCH, 1999

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1998-1999 MGS Meeting Schedules :

Officers Meetings

September 1st
 October 6th
 November 3rd
 December 1st
 January 5th
 February 2nd

 March 2nd
 April 6th
 May 4th

Professional Meetings

September 18th PTTC Workshop & Fall BBQ
 October 13th Moncrief — Tuscaloosa Marine Shale
 November 10th Rick Major — GeoChemical Tracers-Dolomitization
 December 8th Christmas Party, Tuesday 8th
 January 12th Jurassic Reef Trend — Curt Bateman
 February 9th Professional Ethics — Bob Sellers
 February 10th PTTC Workshop
 March 9th Regional Geology of the Miocene — Charles C. Smith
 April 13th TBA
 May 14th Spring Fling & Officer Elections

This March Bulletin is your seventh (7th) bulletin for the 1998-1999 MGS business year which runs from June through May. Nine (9) bulletins are published each year, coincident with our program year (September through May). Traditionally, the Society's professional activities take recess during the summer months (June - August). During the recess period, the Board of Directors meet to work on programs and business matters for the societal year (1998-1999).

Geology & Industry News Briefs :

PRESIDENT'S LETTER

by Rick L. Ericksen

At last month's noon luncheon, although sparsely attended, for those who were there we heard an excellent presentation by Mr. Robert Sellars on the issue of ethics. And as previously mentioned, the Society presented to Mr. Chad Cooper, a student at Mississippi State University, an award for his scholarship in geology. I had the opportunity to speak with Chad a length after the meeting and if not offered a job in geology he will most likely continue his studies in geology in graduate school. Overall, a most impressive, hard working student.

Well, the price of oil has not yet shot up yet - Congress has been grappling with the issue of low oil prices and how they will actually respond, if they respond at all. Some of the word out there on the street is that we are now on the bottom and things can only go up from here. I agree with that point, my concerns however also include how long will this "bottom" last - it will shortly dictate who will be left in business after this crisis is over. Remember what hangs in the balance, the domestic production which is being threatened represents roughly 200 million barrels of oil annually and that approximates what we import from Saudi Arabia. Couched in those terms it definitely should be of deep concern with respect to our national security. What would happen if the oil we are importing from Saudi Arabia was terminated, would we not become "involved" in restoring that supply? There is no difference except the 200 million barrels of domestic oil in question would probably be less expensive to deal with on all fronts which one should consider.

In other news related to the profession of geology I am pleased to report that the amendment which was introduced in the Mississippi State Senate to the Geologists Practice Act of 1997 died in committee. The amendment proposed that engineers could perform geologic work that was "incidental" to engineering. I would like to thank those who became involved with this issue and expressed their views to their senators.

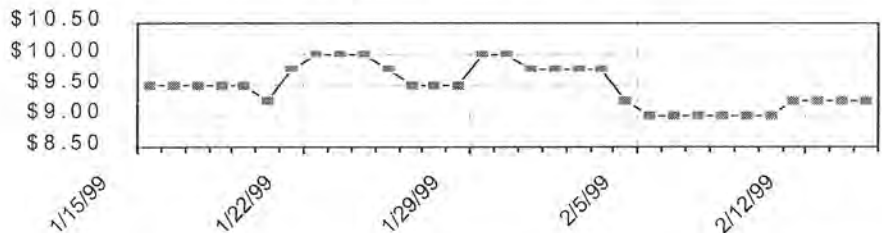
On a related note I would like to add that the first offering of the ASBOG (Association of State Boards of Geology) tests will be on March 19. The tests will be administered on the Millsaps College campus and thereafter it is tentatively planned to be administered at the University of Mississippi, Mississippi State University, the University of Southern Mississippi, as well as at the current location at Millsaps College. The ASBOG tests are scheduled to be administered twice yearly. The next test date is scheduled for September 17, with August 17 being the (continued page 4)

Monthly Oil Price Chart

George Vockroth has supplied the following daily oil price data to illustrate the degree of daily price fluctuations.

Note : WTI is \$2.50 below MERC; East Mississippi is \$3.50 below WTI; and West Mississippi is \$1.00 below WTI

West Texas Intermediate Crude



MGS Professional Luncheon Topic & Speaker, March 9th

Regional Geologic Framework and Petroleum Geology of Miocene Strata, Onshore and Offshore, Alabama

Presented by: Charles C. Smith

The meeting will be held at the Capitol Club
February 9th from 11:30 to 1:00 p.m.

The discovery of natural gas in Miocene strata of southwestern Baldwin County in 1979 initiated an active and, to date, highly successful exploration program throughout southern Alabama and its adjoining State waters. In 1982, Miocene gas was discovered in southern Mobile County as well as in the southern part of Mobile Bay. Since these initial discoveries, over 200 Miocene test wells have been drilled in this area resulting in the development of 42 Miocene natural gas fields. With cumulative production in the area exceeding 105 billion cubic feet (BCF) of natural gas, it is not surprising that increased attention is being focused on the regional geology and geologic framework of Miocene strata of onshore and coastal Alabama. The abundance of subsurface bore holes and accompanying data form an invaluable database for evaluating the local and regional geology and geologic history of the Miocene and in defining the geometry and reservoir characteristics of its producing fields.

Detailed lithological studies indicate that subsurface Miocene sediments consist of a sand-rich terrigenous clastic wedge ranging in thickness from less than 500 feet in south-central Baldwin County to about 3,000 feet in the southwestern part of the Alabama State waters area. These Miocene strata, assigned to (continued page 4)

Geology & Industry News Briefs :

President's Letter Continued :

Please make plans now to attend our next noon luncheon meeting to hear Charles Smith give his presentation on the Miocene.

— PLEASE RSVP BY CALLING 961-5500 —

Until next time —

Rick L. Ericksen

MGS Environmental Section Meeting - March 16th Stanley King - Gold Prospecting In Nevada.

The Environmental Geology Section meets every third Tuesday of every odd month at Southport Mall in the DEQ Commission Hearing Room from 11:45 to 1:00. For details contact Steve Jennings at 961-5205 or Pat Phillips at 961-5213.

Speaker & Topic Continued :

the Pensacola Clay and overlying informal Miocene coarse clastics, were deposited on a gentle southwestward-dipping carbonate shelf of late Oligocene age. Lithological evidence suggests the presence of a significant unconformity along the upper surface of the carbonate ramp, while biological data indicate the presence of an impressive hiatus involving both early as well as early middle Miocene time. Middle Miocene sediments overlying the erosional carbonate surface consist of relatively deep water and open marine transgressive clays and shales. These lower strata are in turn overlain by a regressive off-lapping sequence of sand and subordinate clay of late middle to late Miocene age.

Detailed micropaleontological studies have shown that Alabama's Miocene sediments contain a generally abundant and diverse foraminiferal fauna. Analyses of these faunas have resulted in the development of a comprehensive biostratigraphic zonation consisting of a series of datum levels, or biohorizons, and interval-zones which have been used to construct a framework for the Miocene sediments. This regionally extensive and widely recognized zonation not only permits an analysis of Miocene litho-stratigraphy within a "chronological" framework and the regional correlation of hydrocarbon-productive sands, it has also resulted in a framework for both vertical and horizontal paleoenvironmental interpretations as well as an analysis of varying rates of sediment accumulation of Miocene sediments throughout the area. The reconstruction of the paleoenvironmental history of the Miocene is outlined on a series of maps showing changing basin configuration and the geographic distribution of nonmarine through slope paleoenvironmental settings through the Miocene. Analyses of sediment accumulation rates have resulted in both age-depth plots for selected wells as well as maps showing variable rates of sedimentation for selected interval-zones within the Miocene. These data confirm the presence of the regionally extensive early Miocene hiatus, indicate the overlying transgressive shale accumulated at relatively slow rates of less than 300 feet per million years, and provide a history of rates at which the overlying Miocene sediments were deposited, including those geographic areas of abnormally high deltaic sediment influx.

The subsurface Miocene section of southern Alabama and its State waters area currently contains five formal and informally-named economically important gas-productive sands. The lowermost Amos sand is productive in both onshore and offshore areas with cumulative production of over 32 BCF of gas, although it is most prolific in the onshore Baldwin County (21 fields, 20.4 BCF of gas) and offshore (4 fields, 11.4 BCF of gas) areas. In the emerged areas of southwestern Baldwin County, the Amos sand generally lies at depths of between 1,420 and 1,820 feet mean sea level (MSL), while in Alabama State waters the Amos occurs at depths of approximately 2,280 to 2,870 feet MSL. The overlying Luce sand is minimally productive from 3 fields in southeastern Mobile County where production occurs at depths of between 1,750 and 1,820 feet MSL. The overlying Escambia Sand Member of the Pensacola Clay, although the most areally extensive sand within the Miocene, has produced only a small amount of gas at depths of between 1,25 and 1,280 feet MSL from a single field in southwestern Baldwin County. The overlying informally-named Meyer sand is restricted to southern Baldwin County where 3.2 BCF of gas has been produced from three fields at depths generally between 1,170 and 1,325 feet MSL. The fifth and stratigraphically highest gas-productive sand, and by far the most prolific sand in the Miocene of Alabama, is the informal Dauphin sand. ARCO Oil and Gas Company drilled the first Dauphin sand discovery at North Dauphin Island Field in 1990. Since then, three additional Dauphin sand fields have been discovered in the western portions of Alabama State waters at depths of between 1,780 and 2,015 feet MSL, all located immediately north or south of Dauphin Island. Cumulative production currently exceeds 70 BCF of gas from the 4 offshore fields. To date, the North Dauphin Island Field is the most productive field in Alabama with cumulative production from its five wells exceeding 60 BCF of gas.

Miocene hydrocarbon traps in both onshore and offshore Alabama are principally stratigraphic-structural combination traps involving pinchouts of porous and permeable sands against regional dip or across anticlinal nosing trends. Overlying and underlying clay lithofacies form the vertical and horizontal permeability barriers for the traps. No significant faults are associated with any of the productive fields in Alabama. Porosity is primarily intergranular, with known porosities ranging from 21 to 35 percent and permeabilities ranging from 8 to more than 2,000 millidarcies. Relative amplitude seismic reflection profiles are the primary tool used to explore for the shallow Miocene reservoirs.

Factors contributing to the continuing interest in the Miocene of southern Alabama include a favorable exploration environment, application of highly successful "bright spot" seismic technology, shallow reservoir depth with resulting low drilling costs, a high success rate, the potential for discovery of relatively large reservoirs, and the comparatively stable market conditions for the clean, biogenic methane gas.

Speaker Info :

Charlie Smith has been with the Geological Survey of Alabama for 7 years; and has worked for Tenneco, Phillips, and Unocal oil companies as a paleontologist for 14 years. He was employed with the USGS for 8 years; and as an assistant professorial lecturer at George Washington University for 2 years.



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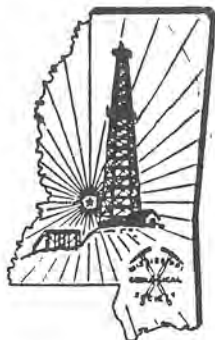
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Mesozoic-Paleozoic Producing Areas of Mississippi and Alabama, Volume III. Includes discovery, structural, and lithologic summaries along with reservoir parameters and production data on 55 selected fields. Each field summary is accompanied by a structure map and a type log. In three-ring binder, 166 p., December, 1986.

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Tertiary and Upper Cretaceous Depositional Environments, Central Mississippi and West-Central Alabama, 33rd Annual GCAGS Meeting, 40 p., 1983.

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The Cretaceous Chalk of the Starkville Area, Northeast Mississippi, by Ernest E. Russell and Stewart W. Welch, co-authors. Contains articles and road log for two-day field trip. 18th Field Trip Guidebook, 69 p., April, 1991.

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Sequence Stratigraphy Principles Briefing and Field Trip, by James L. Coleman, Jr. Contains a highly-illustrated introduction to the subject with an extensive bibliography. Includes a field trip road log. 95 pages, June 1993.

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The Cotton Valley Formation in Mississippi, A Symposium, Stephen M. Oivanki, Editor. Presented by the Mississippi Geological Society. Includes 10 articles on the Cotton Valley along with eight well log descriptions and accompanying E-logs. 167 pages, May, 1997.

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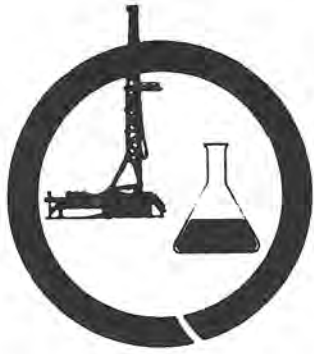
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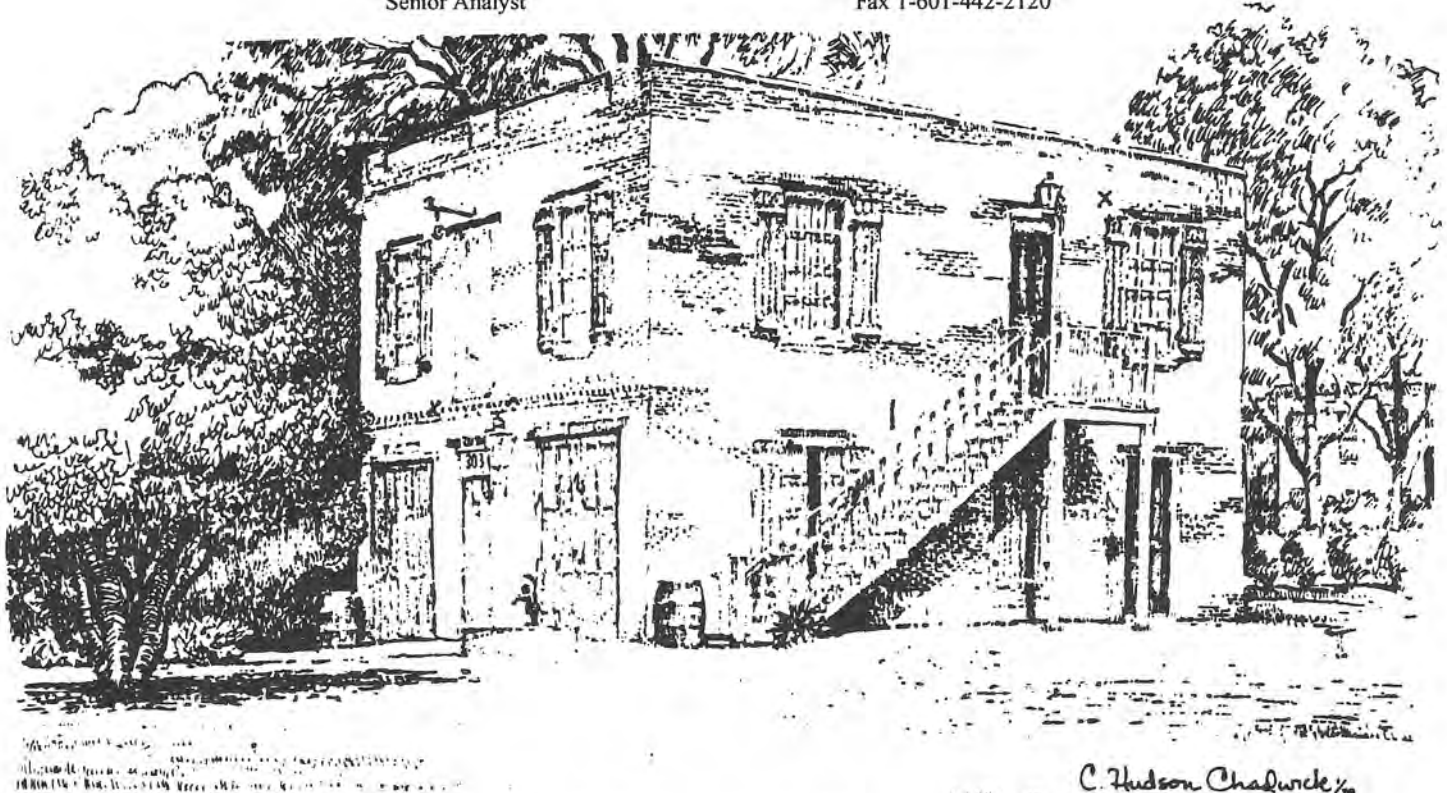
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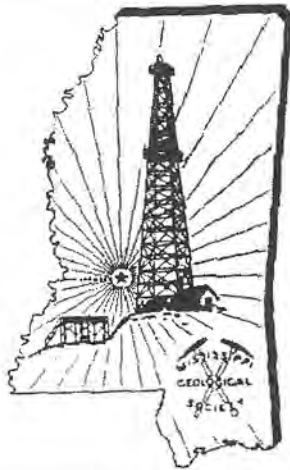
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VOLUME 47

NUMBER 8

APRIL, 1999

PRESIDENT'S LETTER

by *Rick L. Ericksen*

Oil has begun to slowly inch up in price roughly 12 months after it began its precipitous fall to a 50 year low. Cautious optimism prevails, if only product prices were stable. The upward trend in oil prices for many is too little too late but I am not going to dwell on that aspect of the business. All of us are well aware of the numbers involved with layoffs as well as company mergers/closures and so for now I'll let that rest, darker shades of 1986.

For your information according to the recent AGI Government News Update (3/4/99) the crisis in the oil patch is finally starting to get the attention of the Clinton Administration and also that of Capitol Hill. The AGI report states that the Clinton Administration does not support tax-relief. Tax relief, in particular for the small producer, is exactly what is needed. I think that the tax-relief issue is the first most significant area which the Clinton Administration should address. Instead, Energy Secretary Bill Richardson has announced that the DOE will start in April to obtain oil for the Strategic Petroleum Reserve (SPR) as in-kind royalty payments from offshore Gulf of Mexico leases. A lot of good that does for Mississippi producers! The DOE also signed a memorandum of understanding with the Small Business Administration (SBA) to help small producers and service companies take advantage of SBA loan guarantees and other assistance programs. Personally speaking, how can this help? I guess I'm missing something here.

I suppose the driver of this car is OPEC and other large (in terms of production) international, non-OPEC producers. OPEC just announced that effective April 1 that they have agreed to cut production 2.1 million barrels of oil per day. Saudi Arabia, reportedly the world's largest exporter of oil, has agreed to cut its exports by 585,000 barrels of oil per day. Not only has the drop in oil prices affected the small, US domestic producers but also the world's largest producers. The Cadillac socialistic programs in the Arab Gulf states requires a lot of money to maintain and right now they are themselves starting to feel quite uncomfortable with the low oil prices. Clearly if this OPEC agreement is adhered to there should be some relatively quick, upward pressures put on the price of oil—much more so than the rhetoric from the Clinton Administration and from some of our "friends" on Capitol Hill.

In other news of interest, in the March issue of the Metro Business Review there is a very interesting article concerning engineers—who are "quietly and consistently prospering." Included in the article are some significant insights into the world of engineering and the associated problems of how to publicly fund some particular types of "projects." It appears that the driving force behind at least some of these projects needs to be seriously examined. Foremost and of paramount consideration should be: (1) public need; and (2) the basis for the project, i.e. unbiased, scientifically valid data supporting the endeavor. There is at least the appearance that with regard to some "projects" that perhaps one or both of these conditions may have taken the backseat to other considerations. *(continued on page 3)*

MGS Professional Luncheon Topic & Speaker, April 13th

COPPER STACK — The Evolution Of A Nevada Gold Prospect

Presented by: Stanley King

***The meeting will be held at the Capitol Club
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September 18th PTTC Workshop & Fall BBQ
 October 13th Moncrief — Tuscaloosa Marine Shale
 November 10th Rick Major-GeoChem Tracers-Dolom
 December 8th Christmas Party, Tuesday 8th
 January 12th Jurassic Reef Trend — Curt Bateman
 February 9th Professional Ethics — Bob Sellers
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 April 13th Nevada Gold Prospecting — King
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| 1939-1940 | Henry N. Toler | 1958-1959 | Charles Brown | 1979-1980 | Philip R. Reeves |
| 1940-1941 | Urban B. Hughes | 1959-1960 | M. F. Kirby | 1980-1981 | Marshall Kern |
| 1941-1942 | J. Tom McGlothlin | 1960-1961 | Rudy Ewing | 1981-1982 | Stephen Oivanki |
| 1942-1943 | Dave C. Harrell | 1961-1962 | Xavier M. Franscogna | 1982-1983 | James W. "Buddy" Twiner |
| 1943-1944 | K. K. "Bob" Spooner | 1962-1963 | Robert B. Ross | 1983-1984 | Charles H. Williams |
| 1944-1945 | L. R. McFarland | 1963-1964 | William A. Skees | 1984-1985 | C. Kip Ferns |
| 1945-1946 | J. B. Story | | Marvin Oxley | 1985-1986 | Steven S. Walkinshaw |
| 1946-1947 | Frederic F. Mellen | 1964-1965 | James F. Bollman | 1986-1987 | J. R. "Bob" White |
| 1947-1948 | H. Lee Spyles | 1965-1966 | Sankey L. Blanton | 1987-1988 | Harry Spooner |
| | Robert D. Sprague | 1966-1967 | Alan Jackson | 1988-1989 | Stanley King |
| 1948-1949 | Robert D. Sprague | 1967-1968 | Julius M. Ridgway | 1989-1990 | Stan Galicki |
| 1949-1950 | E. T. "Mike" Monsour | 1968-1969 | Edward D. Minihan | 1990-1991 | Jim Files |
| 1950-1951 | J. Tate Clark | 1969-1970 | Kevin E. Cahill | 1991-1992 | Stephen L. Ingram, Sr. |
| | Charles E. Buck | 1970-1971 | John Lancaster | 1992-1993 | Michael Noone |
| 1951-1952 | George W. Field | 1971-1972 | Larry Boland | | Stanley King |
| 1952-1953 | James L. Martin, Jr. | 1972-1973 | Charles Barton | 1993-1994 | Brian Sims |
| 1953-1954 | Wilbur H. Knight | 1973-1974 | Larry Walter | 1994-1995 | C. W. "Neil" Barnes |
| 1954-1955 | A. Ed Blanton | 1974-1975 | W. E. "Gene" Taylor | 1995-1996 | Lester Aultman |
| 1955-1956 | Gilbert A. Talley | 1975-1976 | Jerry E. Zoble | 1996-1997 | Jack S. Moody |
| 1956-1957 | Ben Ploch | 1976-1977 | P. David Cate | 1997-1998 | George B. Vockroth |
| 1957-1958 | Emil Monsour | 1977-1978 | Sarah Childress | | |
| | | 1978-1979 | Lester Aultman | | |

Geology & Industry News Briefs :

President's Letter Continued:

In other news as announced in recent months, the MGS Executive Board has unanimously voted to proceed with the development of a web page for the Society. Please contact me or any of the Board members if you have any ideas concerning the content of the page(s). Under consideration as elements are a membership application, list of Society publications, upcoming noon luncheon speakers, calendar of meeting and other event dates, and links to other related sites. We will welcome any ideas you may have to make this a useful and profitable venture for and by the Society. In addition to the web page, currently under consideration is the transfer of at least the out-of-print, first volume of the Red Book onto a compact disc (CD). This Red Book would be scanned and then a CD burned and offered for sale by the Society. Admittedly there is much information missing and/or updates needed. However the initial discovery data, reservoir data, etc. will then still be available - at worst for at least archival purposes and basic reference.

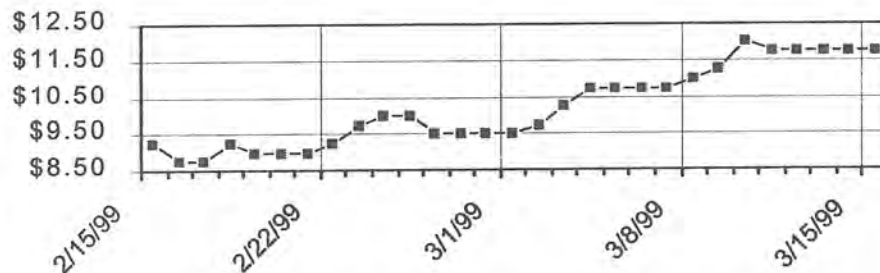
The first ASBOG examination, the Fundamentals of Geology, was administered on March 19 at Millsaps College, in Jackson. There were 17 examinees who signed up to take the scheduled four (4) hour test. Proctoring the examination were RPG Board members Charles T. Swann (Mississippi Mineral Resources Institute), Dr. Darrel Schmitz (Mississippi State University and current Secretary of ASBOG), and myself. Also involved with proctoring were Drs. Jamie Harris (Chair, Geology Department, Millsaps College), Rick Major (Chair, Department of Geology and Geological Engineering, University of Mississippi), and Gail Russell (Chair, Department of Geology, University of Southern Mississippi). In addition to administering the examination, the university and college chairs had the opportunity to meet with board members concerning the future administration of the test and further discussed how the ASBOG examinations would be utilized by each of the schools in their evaluation purposes. This examination offering and the meting of these

Monthly Oil Price Chart

George Vockroth has supplied the following daily oil price data to illustrate the degree of daily price fluctuations

Note: East Mississippi is \$3.50 below WTI; West Mississippi is \$1.25 below WTI
WTI is \$2.50 less than MERC

West Texas Intermediate Crude



leaders in both geologic higher education and the geologic community are yet another milestone in our quest for geologic excellence and geologic professionalism in the State of Mississippi. I for one am very pleased and proud of this and other recent accomplishments which have come to pass.

Remember one more noon luncheon meeting and then the infamous "Spring Fling." Please RSVP both. To RSVP the last luncheon for the MGS year please call 961-5500.

Until next time —

Rick L. Ericksen

Speaker & Topic Continued :

The Copper Stack area was originally seen as an area of fairly simple vein outcrops with open pit mining possibilities. However, more detailed investigation through field mapping, research, excavation, numerous rock assays, and geochemical surveys revealed an area of involved mineral and metal suites and geological complexity.

Stanley King is a native of Jackson, Mississippi. He graduated from Millsaps

College in 1974 with a BA in French. He graduated from Mississippi State University in 1979 with a BS in Geology.

Work Experience :

Mississippi State Oil & Gas Board
TXO Production Corporation

Consulting Geologist since 1983

Worked on retainer for Michel Halbouty, Convest Energy Corp., and numerous other non-retainer clients on oil & gas, especially in field evaluations and prospect generation.

Founded Jackson Log Library in 1987

Involved in precious metals exploration since 1993:

Vice President of Desert Rock, Inc.
Partner in S&S Ventures, Inc.

Stanley is currently working on active claims in east central Nevada and field mapping in south central Nevada on a new prospect area, as well as oil and gas and other ventures involving new technologies relating to geology.

Stanley is a long-time member of the Mississippi Geological Society and has held numerous offices on the Board and various committees. He is also a member of the Houston Geological Society.

Geology & Industry News Briefs : (News Summaries with Periodical Credits)

Naturally Occurring Radioactive Materials (NORM) - Mississippi Project Update

Rick L. Ericksen¹, RPG, CPG, Principal Investigator
Charles T. Swann², RPG, Co-investigator
John C. Matthews³, Co-investigator

During the course of the NORM study currently underway in Mississippi, approximately 180 oil, gas, and injection wells have been sampled in the Black Warrior and Mississippi Interior Salt basins. The term "NORM" is the acronym for Naturally Occurring Radioactive Materials. Another term which is used in the literature is the acronym TENORM (Technologically Enhanced Naturally Occurring Radioactive Materials). For the purposes of this article NORM and TENORM will be considered to be equivalents. To date, a total of nearly 1,500 liters of produced brines has been collected to be analyzed for thorium, uranium, and radium and its isotopic composition.

The source for much of the NORM in produced brines is radium. The radium radionuclides which are responsible for most of the emitted radiation from brine, scale, and sludge related to oil and gas operations are radium-226 and radium-228. These radionuclides are derived from the radioactive decay of thorium and uranium. Both uranium and thorium, unlike radium, are essentially insoluble. Uranium as uranium-238 undergoes radioactive decay to produce radium-226 and thorium as thorium-232 decays into radium-228. Radium being more soluble than either parent is incorporated into the formation fluids that are transferred to the earth's surface when hydrocarbons are produced. As reported by the Mississippi State Oil & Gas Board for the year 1997, Mississippi produced 39,372,963,584 liters (10,402,368,186 gallons or 247,675,433 barrels) of formation water associated with hydrocarbon production from 41 oil and gas producing counties. Radium contained in the produced brine analyzed thus far is generally present in extremely small concentrations (10^{-12} to 10^{-14} moles/liter). However, if conditions are favorable for precipitation, the radium which is contained in the formation water is incorporated in the precipitate, i.e. scale, inside of tubulars, flow lines, heater treaters, and on the surface of sucker rods, etc. The relatively simple chemistry behind this phenomenon is the result of the radium's ionic radii being similar to that of calcium and barium ions. As calcium and barium precipitate, any radium present readily substitutes for these two ions as the scale forms. This leads to the accumulation and concentration of radium in the form of sulfates and possibly as silicates in sludge. The effect of this precipitation and incorporation of the radium into the scale results in its increased concentration and higher activity.

It is of further interest to note that of the two isotopes of radium, radium-226 is considered the more worrisome because when it decays it emits both beta and gamma radiation. Gamma emissions are capable of traveling through steel, iron, or concrete. This aspect of the radium-226 decay was notably recognized in Mississippi when a science teacher took a Geiger counter out into the school grounds and found that school equipment (swings, etc.) which were made from used oil field tubulars were emitting radiation. This was because the used tubulars had scale inside them which contained radium-226, the gamma emitter.

In addition to collecting and analyzing brine samples, we have also been collecting samples of pipe scale, sludge, and tubulars containing scale. Currently underway are experiments utilizing rain (i.e. acid rain) to measure the mobility (solubility) of radium-bearing scale. Additional experiments concerning the solubility of scale are currently being designed to take into account several of the variables which may be encountered under in situ conditions, including microbial degradation.

Updates concerning this project will be published on a continuing basis as it progresses. We are currently in the process of collecting an additional 90 - 100 formation fluid samples to complete this, the initial phase of the project. Should you have any questions please contact the following:

Rick L. Ericksen
phone - 601/961-5507
email - Rick_Ericksen@deq.state.ms.us

Rick L. Ericksen¹ - Mississippi Office of Geology, Jackson, MS
Charles T. Swann² - Mississippi Mineral Resources Institute, University, MS
John C. Matthews³ - Research Institute of Pharmacological Science, University, MS

Geology & Industry Announcements :

Chad D. Cooper has been awarded an *MGS Award of Scholarship*. Members of the Boland Scholarship Committee asked that Chad be considered for a special award due to his scholarly achievements and his personal ambition toward a career in geology. There are always a number of Mississippi students which stand out among the four state college/university nominees for the annual Larry F. Boland Scholarship. Generally, one recipient from each of Mississippi's four-year-degree schools having a geology department may receive the Boland Scholarship. Occasionally, a school may not have a qualified nominee - qualifications are related to senior status as well as other principal criteria. It is even more rare to have the Boland Committee request the MGS Board to consider an additional award — only a bona fide nominee would be considered, if brought before the MGS Board. In this case, Chad D. Cooper met the approval of the MGS Board for this special award. *Congratulations Chad, and congratulations to your parents !*

Parents : Robert and Margaret Cooper of 7707 Rollo Blvd., Milton, FL 32583

Graduate of Milton High School, Class of 1990. Received Associate of Arts Degree in Liberal Art from Pensacola Junior College, June, 1993.

Currently Chad is a senior at Mississippi State University earning a Bachelor of Science Degree in Professional Geology. He has a cumulative G.P.A. of 3.4, was a President's Scholar during the Fall 1998 term with the Chapter of Sigma Gamma Epsilon, National Honorary Society for the Earth Science.

Chad graduates later this year (mid-term) in December, 1999.



It's time for MGS Officer nominations again!

The following individuals have agreed to nomination for office in the MGS 1999-2000 business year. Other nominations will be accepted from the floor during the April 13th Professional Luncheon and nominations may be placed during the election to be held during the May 14th "Spring Fling" Social at the Mississippi Agriculture and Forestry Museum.

(formal announcement to be made in the May Bulletin)

Nominees for 1999-2000 MGS Officers are :

First Vice President — John Marble, Mississippi Office of Geology

Second Vice President — Larry Baria, Jura-Search, Jackson, MS

Secretary — Steve Ingram, Mississippi Office of Geology

Treasurer — Lindsey Stuart, Mississippi Office of Land & Water

Editor — Aaron Lasker, OMNI Laboratories, Inc.

Please be present for the nomination and election process.

APRIL 1999 MEETING SCHEDULE

| SUN | MON | TUE | WED | THU | FRI | SAT |
|-----|----------------------------------|--------------------------------|----------------------------------|--------------------------------|-----|-----|
| | | | | 1 SIPES LUNCH MEETING | 2 | 3 |
| 4 | 5 | 6 MGS OFFICER MEETING | 7 D & D OFFICER MEETING | 8 | 9 | 10 |
| 11 | 12 MAPL EVENING MEETING | 13 MGS LUNCH MEETING | 14 D&D O&G BOARD | 15 | 16 | 17 |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 |

OTHER 1999 MEETINGS : Annual Meetings

AAPG April 11-14 San Antonio; OTC May 3-6 Houston;
 SPWLA May 25-28; GCAGS/AAPG Sept 15-17 Lafayette;
 SPE Oct 3-6 Houston; GSA Oct 25-28 Denver;
 SEG Oct 31-Nov 5 Houston; SIPES Oct 31-Nov 5 Houston;
 AIPG Oct; AEG Oct;

IPAA O&G Investors Symposium

April 19-21, 1999 — New York

For details, fax : (202) 857-4799

**Symposium on In Situ
and On-Site Bioremediation**

April 19-22, 1999 — San Diego

For details contact : (614) 424-5461

**Mississippi
Water Resources Institute**

Annual Conference

April 7-8, 1999

Eagle Ridge Conference Center
 Hinds Community College
 Raymond, Mississippi

Registration \$70

For details contact : (601) 325-3620

MGS ADVERTISING NOTICE !

It is time to place or renew your advertisement in the MGS Bulletin. The Society's business, advertising, and program year runs from June through May. MGS publishes nine bulletins per program year (September through May) with the February Bulletin usually published as our Directory Issue. The specific ad sizes and prices are shown below. Please submit your camera ready ad and payment by August 1, 1999 to:

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June 1999
-May 2000

** camera ready copy required for these sizes
 if submitting a new ad or if ad has changed

Mississippi

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April 13-14, 1999

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Annual AAPG Convention

April 11-14, 1999

For details contact : (918) 560-2679

SEPM Short Courses

(concurrent with AAPG activities)

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 Characterizations of Carbonate Reservoirs**

April 10-11 — Tectonics of Sedimentary Basins

April 10-11 — 3-D Seismic Interpretation

For details contact : (918) 493-3361 or www.sepm.org



EASTERN GULF REGION PETROLEUM TECHNOLOGY TRANSFER COUNCIL

Announces a Technology Workshop

"Eolian Reservoir Characterization and Modeling: Norphlet Formation, Northeastern Gulf of Mexico"

Wednesday, May 26, 1999

8:30 a.m.—4:00 p.m.

Capital Club, Capital Towers, 19th Floor
125 South Congress Street

Jackson, Mississippi 39201
Telephone: (601) 969-7101

The Eastern Gulf Region of the Petroleum Technology Transfer Council invites oil and gas producing and related companies operating in Mississippi, Alabama and Florida to participate in a Technology Workshop entitled, "Eolian Reservoir Characterization and Modeling: Norphlet Formation, Northeastern Gulf of Mexico." The purpose of the workshop is to transfer recent research advances in reservoir characterization and modeling of eolian petroleum reservoirs (Norphlet Formation) to producers operating in the Eastern Gulf Region to facilitate exploration and improve production of oil and natural gas in the area.

PROGRAM

| | |
|---------------|---|
| 8:30 - 8:45 | Welcome and Introduction—Brian Sims, PAG Chair, Madison, MS |
| 8:45 - 10:00 | Eolian Systems—Gary Kocurek, University of Texas |
| 10:00 - 10:15 | BREAK |
| 10:15 - 11:30 | Eolian Systems (continued) |
| 11:30 - 12:30 | LUNCH |
| 12:30 - 1:30 | Jurassic Norphlet Characteristics, Eastern Gulf—Mark Puckett & Ernest A. Mancini, University of Alabama |
| 1:30 - 2:30 | OCS Norphlet Geology and 3-D Geophysics—Chip Story, Amoco Corporation |
| 2:30 - 2:45 | BREAK |
| 2:45 - 3:15 | Onshore Eolian Reservoirs, Eastern Gulf—Larry Baria, Jura-Search, Inc. |
| 3:15 - 4:00 | Summary—Ernest A. Mancini |

It is essential that we have an accurate accounting of those who plan to attend the workshop. Therefore, we request a reply no later than May 19, 1999. Please contact Brian Panetta at:

Department of Geology
Box 870338, University of Alabama
Tuscaloosa, AL 35487-0338

or Telephone: (205) 348-6569
Fax: (205) 348-0818
E-mail: bpanetta@wgs.geo.ua.edu

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(Last) (First) (Middle Initial)

Preferred Name on Badge _____

Affiliation _____

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There will be a \$25.00 fee to attend the workshop, payable by check ONLY, to the Petroleum Technology Transfer Council (PTTC) on May 26, 1999, at the workshop. We look forward to your participation.



Publications of the
**MISSISSIPPI
 GEOLOGICAL
 SOCIETY**

FIELD TRIP GUIDEBOOKS

Upper Cretaceous Outcrops, Northeast Mississippi and West Central Alabama, 14th Field Trip, 29 p., May, 1959.

MGS 101G\$4.00
Recent Sedimentation on Horn Island, Mississippi and Stratigraphy of the Quaternary and Upper Tertiary of the Pasacoula Valley, Mississippi, 10th Annual GCAGS Meeting, 24 p., 1960.

MGS 102G\$2.50
The Paleozoics of Northwest Arkansas, 16th Field Trip, 48 p., May, 1962.

MGS 103G\$5.00
Mississippian Rocks of the Black Warrior Basin, 17th Field Trip, 79 p., April, 1978.

MGS 104G\$8.00
Tertiary and Upper Cretaceous Depositional Environments, Central Mississippi and West-Central Alabama 33rd Annual GCAGS Meeting, 40 p., 1983.

MGS 105G\$7.50
The Cretaceous Chalk of the Starkville Area, Northeast Mississippi, by Ernest E. Russell and Stewart W. Welch, co-authors. Contains articles and road log for two-day field trip. 18th Field Trip Guidebook, 69 p., April, 1991.

MGS 106G\$10.00
Sequence Stratigraphy Principles Briefing and Field Trip, by James L. Coleman, Jr. Contains a highly-illustrated introduction to the subject with an extensive bibliography. Includes a field trip road log. 95 pages, June 1993.

MSG 107G\$10.00
The Cotton Valley Formation in Mississippi, A Symposium, Stephen M. Oivanki, Editor. Presented by the Mississippi Geological Society. Includes 10 articles on the Cotton Valley along with eight well log descriptions and accompanying E-logs. 167 pages, May, 1997.

MGS 108G\$30.00

COMPOSITE LOGS AND CROSS SECTIONS

Composite Mesozoic Log of South Mississippi and South Alabama.

MGS 201M\$2.00
Composite Paleozoic Log of Black Warrior Basin, Mississippi and Alabama.

MGS 202M\$2.00
Well Log Correlation Sections, Paleozoic of the Black Warrior Basin, Set of five sections.

MGS 210CS\$10.00

SPECIAL VOLUMES

Wilcox Fields of Southwest Mississippi, Maps and production data on 171 fields, in ring binder, 350p, 1969.

MGS 001SV\$28.00

Mesozoic-Paleozoic Producing Areas of Mississippi and Alabama, Volume II, includes Supplements 1-8. Maps and producing data on 146 fields. In ring binder, 361 p., 1963-1980.

MGS 002SV\$50.00

Volume II In Separate Sections:

Supplement 1 for Volume II, Maps and Producing data on 77 fields, 143 p., 1963.

MGS 003SV\$15.00

Supplements 2 through 7 for Volume II, Maps and producing data on 35 fields, 110 p., 1964-1972.

MGS 004SV\$15.00

Supplement 7 for Volume II, Maps and producing data on 34 fields, 108 p., 1980.

MGS 005SV\$25.00

Mesozoic-Paleozoic Producing Areas of Mississippi and Alabama, Volume III. Includes discovery, structural, and lithologic summaries along with reservoir parameters and production data on 55 selected fields. Each field summary is accompanied by a structure map and a type log. In three-ring binder, 166 p., December, 1986.

MGS 006SV\$50.00

Supplement I for Volume III. Contains information, structure contour maps, and type logs on 19 fields—six in Alabama, two in Florida, and eleven in Mississippi. 45 p., 1992, heavy stock, punched for binder.

MGS 007SV\$25.00

Supplement II for Volume III. Contains information, structure contour maps, and type logs on 19 fields—seven in Alabama, one in Florida, and eleven in Mississippi. Punched for binder, 82 pages, 1995.

MGS 008SV\$25.00

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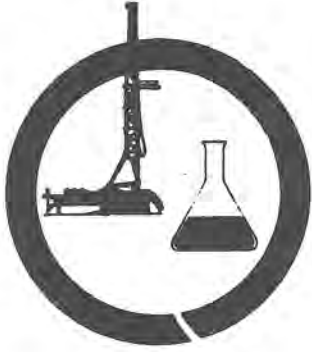
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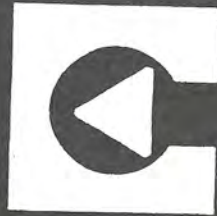
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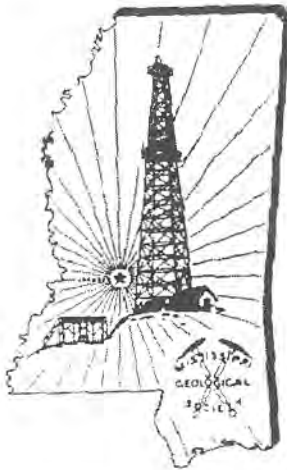
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MISSISSIPPI GEOLOGICAL

VOLUME 47

NUMBER 9

MAY, 1999

PRESIDENT'S LETTER

by Rick L. Ericksen

This being the last newsletter for the MGS 1998-99 program year, we want to congratulate those who have volunteered to have their names placed in nomination for the upcoming election to be held during our annual Spring Fling. The following is the slate of officers for your consideration:

President Stanley King, Independent
First Vice President John Marble, Office Geology
Second Vice President Larry Baria, Jura-Search
Treasurer Lindsey Stewart, OLWR
Editor Aaron Lasker, Omni Labs

I want to thank these candidates for volunteering for service to their Society, your Society. I also wish to express my gratitude to all of the current board members for their help during the past year without which nothing would have been accomplished. On to what has transpired during the year - 1) change of billing of advertisements; 2) formation of two new society committees - Legislative/Governmental Affairs and Water Resources; 3) passage of House Bill 537 and concurrence by Governor Fordice to include the Mississippi Geological Society as a voting member on the "Water Resources Advisory Council"; 4) the initiation of the development of a web site for the society; 5) initiation of the transfer of the out-of-print Red Book (Volume 1) onto a compact disk (CD) format; 6) the joint efforts of the MGS and SIPES to inform legislators, on a federal level, of the plight of the industry in Mississippi; and 7) the presentation of a monetary award and formal recognition by the Society for academic scholarship. These activities are, of course, beyond the normally sponsored activities of the society.

Since this is my last letter as MGS President, perhaps it is the time for some reflection on the past year. For those who may have detected cynicism in my recent writings, I am still optimistic about the return of oil prices to levels which will justify domestic oil production and maybe even domestic exploration. However, when it comes to the perception of the oil and gas industry coupled with the untrusting sentiment of the public and vote-seeking politicians any sort of industry support or for that matter support for former oil and gas industry personnel are impercepti-

ble or just plain non-existent. Our image needs a lot of work. In other, upcoming business which most of you will forget, I would like to inform you that in order to get membership dues in on a timely basis you will receive an invoice in your first (September) bulletin. Remember, the MGS year runs from June through May and your membership is actually due in June, but since there are no newsletters published during the summer months the very first opportunity for billing comes with the September bulletin. So before you trash your bulletin be sure to pull out the invoice and mail it in along with your \$20.00. You could even pay right now and be done with it.

I had the opportunity to attend the AAPG annual convention as your President and also as a delegate to the House of Delegates, a member of the House of Delegates Rules and Procedures Committee, and Chairman of the Registration and Licensing Committee. In order of events from my perspective, I would like to announce that the Division of Professional Affairs is currently in the process of placing the state registration tabulation which I have developed on the AAPG web site (<http://www.geobyte.com/>). This tabulation lists states with registration, licensing, certification, etc., as well as other pertinent facts. So at a glance one will be able to ascertain what is required to practice in any particular state in the U.S., e.g. if continuing education is required, etc. *(continued page 4)*

***There will be no
MGS Professional Luncheon this
month. September is the first month in
the Society's program year which runs
from September through May. Traditionally,
MGS opens and closes each
program year with its Fall BBQ in
September and the Spring Fling in May.
We hope to see you there !***

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| House of Delagates Rules & Procedures Cmt... | Rick L. Ericksen | Mississippi Office of Geology..... | (601) 961-5507 |

MGS Meeting Schedules :

Officers Meetings

September 1st
 October 6th
 November 3rd
 December 1st
 January 5th
 February 2nd
 March 2nd
 April 6th
 May 4th

Professional Meetings

September 18th PTTC Workshop & Fall BBQ
 October 13th Moncrief — Tuscaloosa Marine Shale
 November 10th Rick Major-GeoChem Tracers-Dolom
 December 8th Christmas Party, Tuesday 8th
 January 12th Jurassic Reef Trend — Curt Bateman
 February 9th Professional Ethics — Bob Sellers
 March 9th Moicene — Chales Smith
 April 13th Nevada Gold Prospecting — King
 May 14th Spring Fling & Officer Elections

Honorary Members : (* — deceased)

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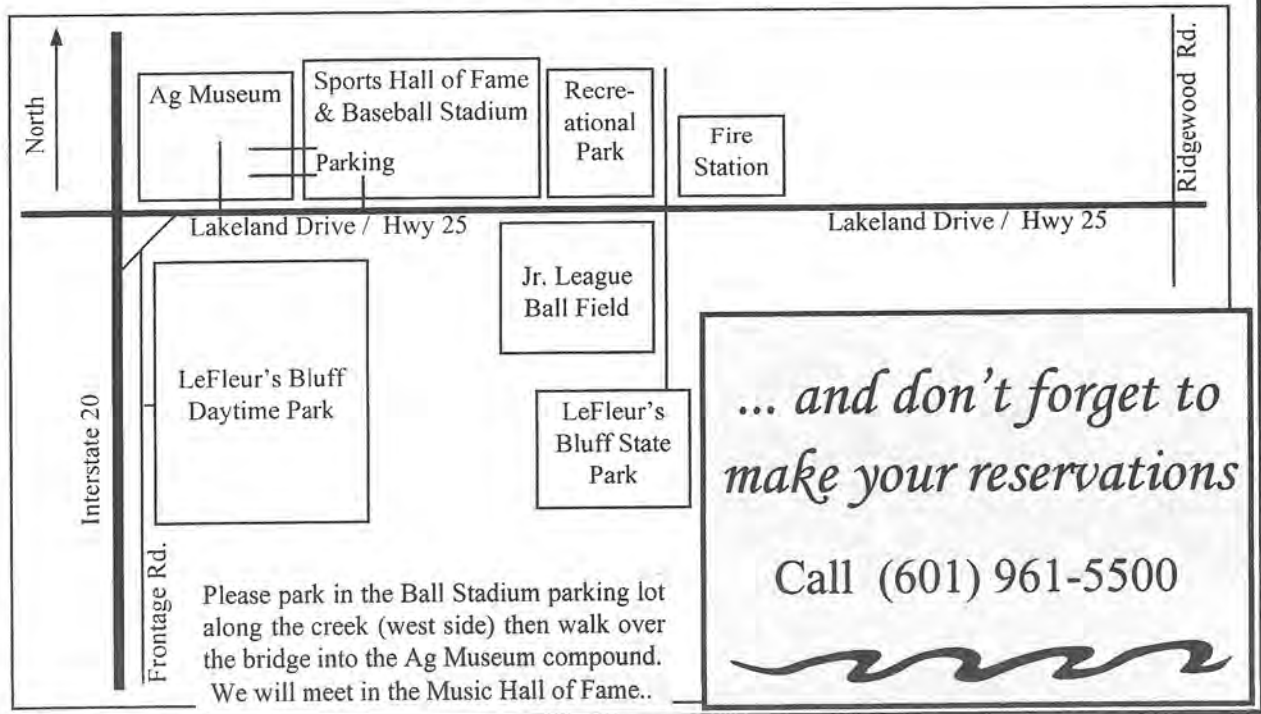
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| 1944-1945 | L. R. McFarland | 1963-1964 | William A. Skees | 1984-1985 | C. Kip Ferns |
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| | Robert D. Sprague | 1966-1967 | Alan Jackson | 1988-1989 | Stanley King |
| 1948-1949 | Robert D. Sprague | 1967-1968 | Julius M. Ridgway | 1989-1990 | Stan Galicki |
| 1949-1950 | E. T. "Mike" Monsour | 1968-1969 | Edward D. Minihan | 1990-1991 | Jim Files |
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| 1957-1958 | Emil Monsour | 1977-1978 | Sarah Childress | 1998-1999 | Rick L. Ericksen |
| | | 1978-1979 | Lester Aultman | | |

*You are cordially invited to attend
the Annual Mississippi Geological Society "Spring Fling"
to be held on Friday, May 14th
beginning at 4:30 p.m., meal begins at 6:00 p.m.
(Things wind down around 7:30 or 8:00 p.m.).*

*The catfish supper will be held at the
Agriculture & Forestry Museum's Music Hall of Fame
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*Cost is \$10 per person — includes meal and drinks.
Please make your reservations by May 12th to ensure your
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for this special time.*



Geology & Industry News Briefs :

Editors Note :

It was a busy year and it went fast !

I thank you'all for bearing with me through the several type-o's and notable goof-ups that occurred in this year's bulletin. Only those of us who have undertaken this particular job know how demanding it can be, especially around the monthly deadline for printing your bulletin. Also, as most of you can attest —

I'm no spelling-bee champ!

I want to applaud Rick Ericksen, our 1998-1999 MGS President - under whom I served, for his forthright leadership this year. Rick willingly discussed and informed you, the MGS membership, of the various issues which have and/or will impact you, your practice, and the public at-large. Several of these issues remain unresolved and of utmost importance to the public, i.e. Depletion (? true or untrue) of Mississippi's ground water resources and the prospect of future regulation of this State's water resources; and other legislative issues regarding your geologic practice.

As Editor, and having been involved with the MGS Board and Bulletin through the past 10 years, I can confidently say that Rick stands-out as one of the finest MGS President's to serve our Society during this decade. That statement does not discount any of our other distinguished past president's of the last ten years —

The statement is only meant to note that Rick stood-up when leadership was needed, even when he knew he would suffer for it. We should all praise him for his willingness to address these and other issues which developed during his tenure.

MGS Environmental Section

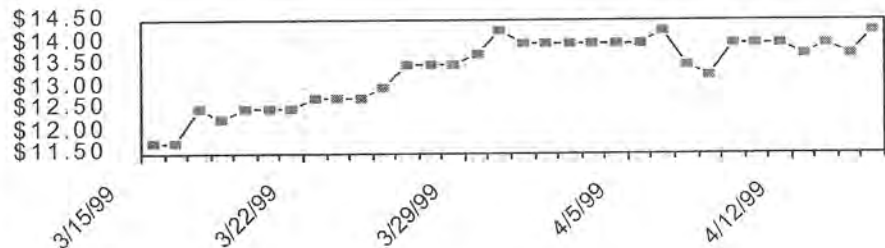
The Environmental Geology Section meets every third Tuesday of every odd month at Southport Mall in the DEQ Commission Hearing Room from 11:45 to 1:00. Our next meeting will be May 18th, 1999 — speaker to be announced.

Monthly Oil Price Chart

George Vockroth has supplied the following daily oil price data to illustrate the degree of daily price fluctuations

Note: East Mississippi is \$2.50 below WTI; West Mississippi is \$.75 below WTI

West Texas Intermediate Crude



President's Letter Continued:

As a member of the AAPG's House of Delegates (HOD) Rules and Procedures Committee, this committee had the charge of bringing the existing R&P into conformance with amendments which were before the HOD - which essentially consisted of the formalization of international sections of the AAPG. Without going into all of the details of what turned out to be the longest HOD in history, all of the amendments presented to the HOD were accepted, including an amended form of the R&P, by majority votes of the delegates. Overall, a very productive meeting.

In conclusion, I want to thank all of you for your support during the past year, especially the officers and committee members, who are Ed Hollingsworth, Todd Hines, Steve Ingram, Steve Jennings, Harold Karges, Stanley King, Dee Layman, John Marble, Mike Noone, Pat Phillips, and George Vockroth. I am particularly indebted to Steve Ingram, the spelling bee champ, for keeping me on my toes to make sure that continuity and deadlines were met. And most importantly I am indebted to him (Steve I.) for his unrelenting moral support and encouragement during busy and certain difficult times. It has allowed me to stay on a professional level, which even on my worst days far exceeded (and still exceeds) the obstacles placed by others.

Hope to see you at the Spring Fling. RSVP by calling 961-5500 - PLEASE!

Have a pleasant and safe summer.

And

Until next time —

Rick L. Ericksen
MGS President 1998-1999

P.S.

Let's not forget to thank the many sponsors and advertisers who have supported MGS throughout the year!

Again

See You at the Spring Fling !



MAY 1999 MEETING SCHEDULE

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|-----|---------------------------------|---------------------------------|----------------------------------|--------------------------------|------------------------------|-----|
| | | | | | | 1 |
| 2 | 3 MAPL EVENING MEETING | 4 MGS OFFICER- MEETING | 5 D & D OFFICER MEETING | 6 SIPES LUNCH MEETING | 7 | 8 |
| 9 | 10 | 11 | 12 D&D LUNCH MEETING | 13 | 14 MGS SPRING FLING | 15 |
| 16 | 17 | 18 | 19 O&G BOARD | 20 | 21 | 22 |

OTHER 1999 ANNUAL MEETINGS :

AAPG New Orleans; OTC May 3-6 Houston;
 SPWLA May 25-28; GCAGS ; SPE Oct 3-6 Houston;
 GSA Oct 25-28 Denver; SEG Oct 31-Nov 5 Houston;
 SIPES Oct 31-Nov 5 Houston; AIPG Oct; AEG Oct;
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It is time to place or renew your advertisement in the MGS Bulletin. The Society's business, advertising, and program year runs from June through May. MGS publishes 9 bulletins per program year (September through May) with the February Bulletin usually published as our Directory Issue. The specific ad sizes and prices are shown below. Please submit your camera ready ad and payment by August 1, 1999 to :

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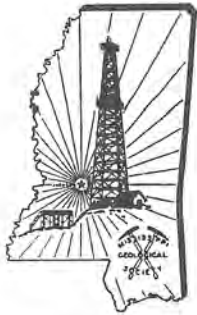
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Mesozoic-Paleozoic Producing Areas of Mississippi and Alabama, Volume III. Includes discovery, structural, and lithologic summaries along with reservoir parameters and production data on 55 selected fields. Each field summary is accompanied by a structure map and a type log. In three-ring binder, 166 p., December, 1986.

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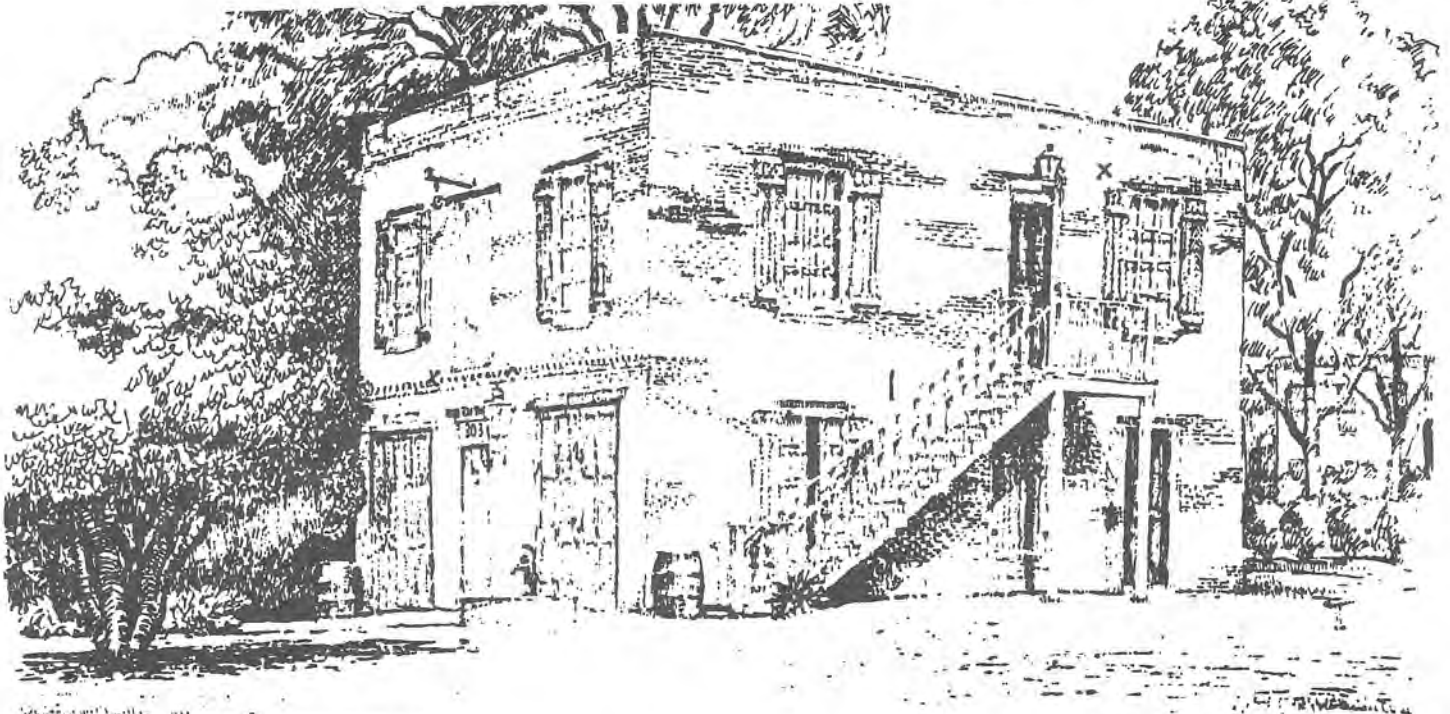
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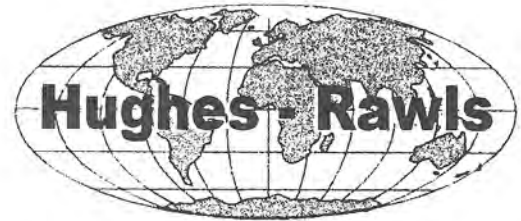
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