

MISSISSIPPI GEOLOGICAL SOCIETY

VOLUME 49

NUMBER 1

September, 2000

PRESIDENT'S LETTER

by *John Marble*

Here we are again at the start of a new year for the Society. There was much progress last year and I am hopeful it will continue this year. The Board of Directors has been active over the summer and we have some news for our members. We secured a small office in the Enterprise Center on Highway 80 in Jackson and purchased a computer for the office. We are hopeful to be "up and running" within the next few months. Plans are for us to be more centralized and have a space that will belong to the Society. This will allow us to publish our newsletter, maintain membership information more accurately, e-mail bulletins and announcements, and eventually publish our own materials such as the Greenbook and Redbook Series. This office space and computer will also allow us to maintain a Website for the Society which will give us more exposure to other Societies and Associations.

Several announcements are in order for upcoming events and to pass along information. The first is, unfortunately, a sad one for the "Oil Field" and the Society. Many of you may not be aware of Mr. Ed Kendricks recent passing, preceded a few months back by Mr. Harold Karges death. The Geologic and Oil Field communities lost two of the more active members. The number of projects and wells that Harold and Ed worked on is amazing. Mississippi's exploration and logging industry will miss these two gentlemen.

The annual meeting of the G.C.A.G.S will be held in Houston, Texas this year. Dates for the convention are October 25-27, 2000. The convention hotel is the Westin Galleria near downtown Houston. You should be receiving convention information from the G.C.A.G.S. very soon.

The Fall Bar-B-Que will get this year's activity off to a great start. We will convene at 4:00 P.M., September 21, 2000

at the Agriculture Museum for a pre-Bar-B-Que Core Party. Dr. Ezat Heydari of the Mississippi Office of Geology will be the host of the event. Many thanks to Spooner Petroleum for letting us have a look at cores from their Viersen 30-9 and Vierson 30-11 wells in Stringer Field in Jasper County, Mississippi. Dr. Heydari invites you all to come out, participate, and share your ideas. About 5:00 P.M. or thereabouts, depending on the core party, we will break out the libations and such for the Bar-B-Que. Dinner will be served at 6:00 P.M. The Core Party is free and the Bar-B-Que is a mere \$10.00 per person. Membership Dues for the upcoming year are due and may be paid at the party.

Numerous activities are planned or being planned for this year. Details for a field trip, special meetings, more core workshops and/or Seismic workshops are being finalized.

Finally, please consider this letter an open invitation for comments, suggestions, observations and the like. We need input from the membership on speakers, plays of interest, seismic techniques, new research, environmental projects and issues, etc. We also need speakers and volunteers for the Environmental Section meetings. If you have any thoughts or ideas for the Society, please let me know.

Until the Bar-B-Que...

John Marble

MGS President 2000-2001

FALL BBQ
September 21, 2000
4:00PM
MS AG Museum

MISSISSIPPI GEOLOGICAL SOCIETY 1999 – 2000

MGS 2000-2001 BOARD OF DIRECTORS

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MGS Meeting Schedules :

OFFICERS MEETINGS

September 5, 2000
 October 3, 2000
 November 7, 2000
 December 5, 2000
 January 2, 2001
 February 6, 2001
 March 6, 2001
 April 3, 2001
 May 1, 2001

PROFESSIONAL MEETINGS

September 21st — Fall BBQ – Ezat Heydari – Stringer Field
 October 10th — TBA
 November 14th — TBA
 December 14th — Christmas Party
 January 9th — TBA
 February 13th — TBA
 March 13th — TBA
 April 10th — TBA
 May 17th — Spring Fling

The Society's business, advertising, and program year runs consecutively from June through May. MGS publishes 9 bulletins per program year with the Membership Directory published each Spring as one of the monthly bulletins. Advertising sizes and rates are published in each bulletin. For questions or comments, see the MGS mast head above for your contacts.

INDUSTRY NEWS

Rebel Drilling Co has changed out string of tubing at the discovery well for West Chicora Field in southeastern Mississippi's Wayne County.

Tubing is designed to handle the highly corrosive hydrogen sulfide gas produced at the No. 1 Bazor 13-1, NE NE section 13-7N-7W, discovery well for West Chicora Field.

After tubing was changed out, a brief test of one hour indicated a flow rate of 2,190,000 cubic feet of gas, 281 barrels 57.1-gravity condensate and 26 barrels water per day through an 8/64-inch choke with flowing tubing pressure 7798 pounds.

Production is from pay in Smackover through perforations 17,180-218 feet. Total depth is 17,988 feet and casing was run to 17,929 for completion.

A specially designed plant is expected to begin handling gas from the field sometime in September.

MGS ADVERTISING NOTICE !

It is time to place or renew your advertisement in the MGS Bulletin. Last year the MGS Board of Directors voted to change the advertising year (the calendar year) to coincide with the Society's business year which runs from June through May. This year's first issue of the Bulletin will be the September issue. Please place or renew your ad now. The specific ad sizes, prices, and options are outlined below.

PLEASE SUBMIT YOUR AD (if new or changed from last year) ALONG WITH THIS SHEET AND PAYMENT TO:

MISSISSIPPI GEOLOGICAL SOCIETY
P.O. BOX 422
JACKSON, MISSISSIPPI 39205-0422
Attention: Steve Jennings

Thank you for your cooperation and support for the Society. Your prompt reply will be appreciated.

AD SIZE SELECTION:
(please check size desired)

RATE (per year):

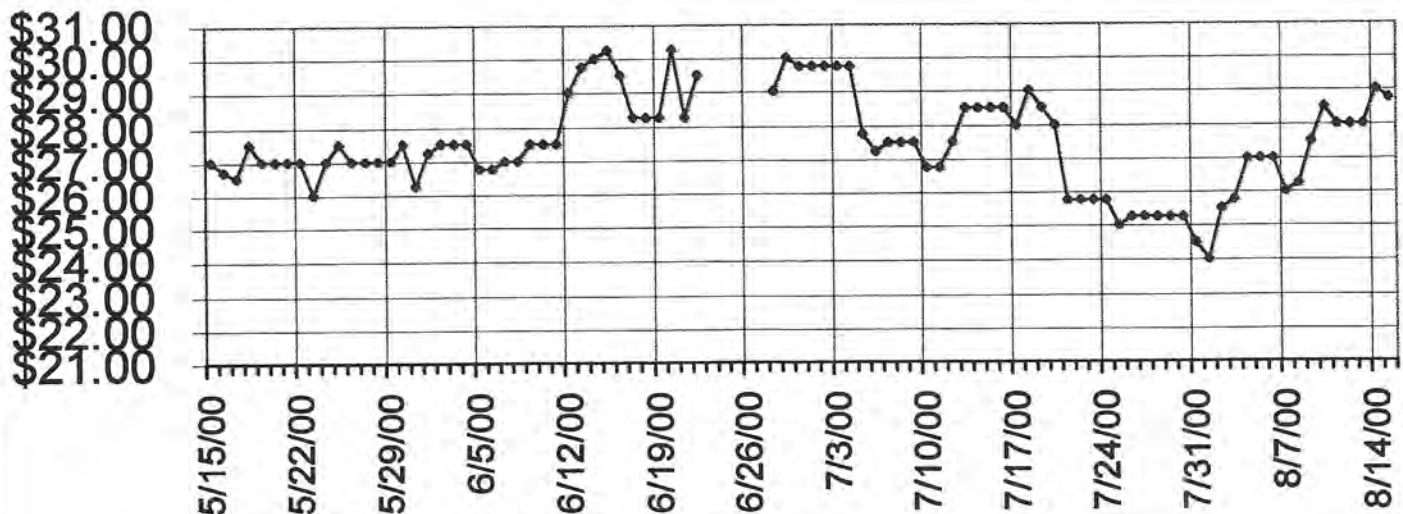
— 1/2" X 3 1/2"	\$ 40.00
— 1" X 3 1/2"	\$ 75.00
— 1 1/4" X 2 1/2" **	\$ 80.00
— 1 7/8" X 3 1/2" ** (business card)	\$100.00
— 1 3/4" X 4 1/2" **	\$150.00
— 4 1/2" X 3 1/2" ** (1/4 page)	\$200.00
— 4 1/2" X 7 1/2" ** (1/2 page)	\$300.00
— 9" X 7 1/2" ** (full page)	\$500.00
— check here also if your ad is to be the same as last year	

** camera ready copy required for these sizes (new or changed ad only). Please contact Editor Aaron Lasker (601) 939-3200 or Steve Jennings (601) 961-5205 for details. Please note that the Bulletin is not published in the summer months.

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 \$.50

West Texas Intermediate Crude





Fall Barbeque

September 21, 2000

Mississippi Agriculture & Forestry Museum
The Masonic Lodge
(near the Rose Garden in downtown Smallville)

Schedule of Events:

4:00 P.M. Core Party Begins

Dr. Ezat Heydari will present data on two sets of cores. Dr. Heydari is employed in the Energy Division of the Office of Geology.

Spooner Petroleum has been gracious to allow us to have a look at cores from their #1 Viersen 30-11 and #1 Viersen 30-9 in Stringer Field, Jasper Co., MS.

6:00 P.M. Barbeque Dinner

Come early, enjoy the Core Party and visit with friends.

Cost: \$10:00 per person

Call John Marble @ 354-6328
to reserve your space.

TREASURER'S REPORT - FISCAL YEAR 2000

EXPENSES:

Item	Budget FY 2000	Actual
Previous Year's Exp.	\$ 1,808.26	\$ 1,808.26
Monthly Luncheons:		
Capitol City Club	\$ 2,500.00	\$ 2,165.35
Name Tags	\$ 15.00	\$ -
Speaker Plaques	\$ 650.00	\$ 376.42
Speaker Expenses	\$ 300.00	\$ 306.30
Environmental Section:		
Speaker Travel	\$ 300.00	\$ -
Meals	\$ 150.00	\$ -
Speaker Plaques	\$ 200.00	\$ 47.72
Bulletin:		
Printing	\$ 5,000.00	\$ 5,031.41
Labels	\$ 500.00	\$ 360.00
Postage	\$ 600.00	\$ (195.21)
Bulk Mail Permit	\$ -	\$ -
Executive Com. Meeting	\$ 800.00	\$ 707.85
Fall BBQ	\$ 1,300.00	\$ 1,460.57
Christmas Party	\$ -	\$ 1,005.19
Spring Fling	\$ 1,300.00	\$ 1,147.01
Miscellaneous:		
P.O. Box Rental	\$ 44.00	\$ 44.00
Postage	\$ 25.00	\$ 40.35
MGS Award	\$ 200.00	\$ -
GCAGS Advertising	\$ 350.00	\$ -
Officers' Bond	\$ 110.00	\$ 110.00
Publications	\$ 2,000.00	\$ 236.96
Bank Charge	\$ 60.00	\$ 49.23
MS Water Res. Conf.	\$ 75.00	\$ -
Tax Preparation:		
MGS	\$ 150.00	\$ 150.00
Boland Scholarship	\$ 75.00	\$ -
Office:		
Rent	\$ -	\$ 791.00
Insurance	\$ -	\$ 100.00
Total Expenses	<u>\$ 16,704.00</u>	<u>\$ 15,742.41</u>

REVENUES:

Item	Budget FY 2000	Actual
Membership Dues	\$ 3,500.00	\$ 2,645.00
Advertising	\$ 3,000.00	\$ 3,891.57
Monthly Luncheons	\$ 1,800.00	\$ 1,570.00
Fall BBQ	\$ 900.00	\$ 490.00
BBQ Sponsors	\$ 900.00	\$ 935.00
Christmas Party	\$ -	\$ 490.00
Christmas Sponsors	\$ -	\$ -
Spring Fling	\$ 600.00	\$ 1,070.00
Spring Fling Sponsors	\$ 1,000.00	\$ 799.76
Earth Enterprises	\$ 800.00	\$ 820.50
Deposits from MMA	\$ -	\$ -
Publications	\$ -	\$ -
MGS Award Donations	\$ -	\$ -
Boland Donations	\$ -	\$ -
Bank Error		\$ 0.50
Total Revenues	<u>\$ 12,500.00</u>	<u>\$ 12,712.33</u>
Net Change	\$ (4,204.00)	\$ (3,030.08)

Money Market Account:

Balance 5/31/99	\$ 14,889.69
Interest	\$ 350.14
Balance 5/31/00	\$ 15,239.83

Saving the Red Hot Truck Stop Fossil Locality, Meridian, Mississippi

By David Dockery, PhD

When plans were publicized to build a Super Wal-Mart behind the Red Hot Truck Stop in Meridian, Mississippi, the Mississippi Office of Geology received calls from area residents, including two teachers, who were concerned that the fossil site behind the truck stop would be destroyed. Since the truck stop was built around 1955, geology classes and local collectors have dug around boulder-sized concretions in the basal Eocene Bashi Formation looking for shark teeth (as well as ray teeth, saw-fish rostral denticles, crocodile teeth, and sea-snake vertebrae). The finding of a small mammal tooth (and a primate at that) by Chris Beard of the Carnegie Museum of Natural History in a collection of teeth made by Gerard Case (a shark-tooth expert) brought the Carnegie field crew to Mississippi twice in 1990, once in 1991, once in 1992, and again in 1994. In the latter field season, they were assisted by teachers from Northeast Lauderdale Middle School.

Saving the Carnegie fossil mammal site was considered to be of the utmost importance. Fortunately the developer, the Mattiace Company, was of the same mind. In a meeting at the site with the developer and engineers (with Engineering Plus) on September 14, 1999, a plan was discussed to exclude the classic Tuscaloosa and Bashi fossil localities behind the Red Hot Truck Stop from development. The developer was also alerted to the fact that the Bashi Formation contained giant rocks, which would have to be moved.

With the fossil sites saved, there was now an opportunity to salvage an area east of the sites where the grade for an entrance road and bridge would expose the Bashi Formation at a new locality. Again the developer was amenable to paleontological interests, and plans to salvage the Bashi Formation were made. In the first cut, construction crews salvaged only the large car-size concretions from the Bashi and used the fossiliferous sands for fill. After a call to the developer, Jamie Keeton of Yates Construction Company made sure that a sufficient supply (four haul-truck loads) of fossiliferous sand was salvaged in the final cut through the Bashi Formation on August 22, 2000. But, before the Bashi sands could be excavated, a large track hoe, pulling from several angles and at times rearing up on its tracks, had to bust through what seemed to be a 60-foot-long solid ledge of entangled giant Bashi concretions.

The Bashi concretions make interesting yard rocks and bristle with Early Eocene fossil shells. Lewis Wrecker Service salvaged a boulder for their business, two for a paying customer, and one for a local elementary school (for which they made the front page of the August 24 issue of *The Meridian Star*). This prompted the Mississippi Museum of Natural Science in Jackson to order a load of boulders to be placed along a walkway in front of the museum. Three large boulders were delivered on a flat-bed trailer on August 24. They were placed bottom side up to show the multitude of fossils on the underside.

The Carnegie Museum of Natural History has a grant to return to Meridian later this fall or winter and sieve the salvaged sands of the Bashi Formation in search of mammal teeth. Helping with this search will be eager students of area elementary and perhaps middle school science classes.





Bashie boulders being loaded on a flatbed truck to be placed in front of the Mississippi Museum of Natural Science

Joint MS State Board of Registered Professional Geologists and Petroleum Technology Transfer Council Seminar Scheduled for Wednesday, December 6, 2000

In an effort to provide ongoing educational opportunities the Board of RPG's has teamed up with PTTC to jointly offer a one day seminar dealing with the application of wireline tools in the evaluation of water wells and in the identification/evaluation of contaminants in groundwater and groundwater aquifers. The preliminary agenda calls for the seminar to start at approximately 8:30 AM and continue to 4:00 PM. The location will be at the Capital Club, 19th Floor of Capital Towers, 125 South Congress Street, Jackson. The anticipated cost of the entire day long event will be \$10.00 per person which includes the buffet lunch. Registrations for the seminar are not yet being accepted but will be offered through the PTTC web site located at <http://egrpttc.geo.ua.edu/pttc/egr/egr.html>

In addition, the RPG Board and PTTC are also planning another day long seminar to be held in early Spring dealing the application of the latest wireline logging technologies and quick look log analysis of the data generated from these wireline tools.

Announcements concerning both of these offerings will follow in later MGS Bulletins and also on the PTTC and RPG Board's web sites.



Publications of the
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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, 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

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

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

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3. You have ever spent more than ten dollars for a book about rocks.
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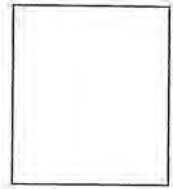
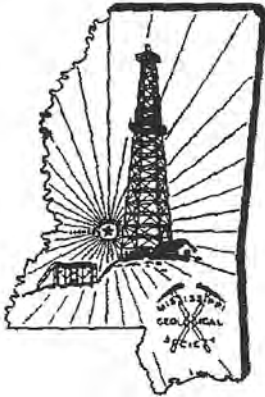
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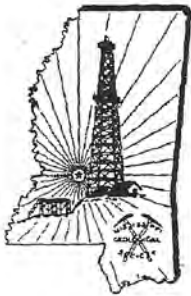
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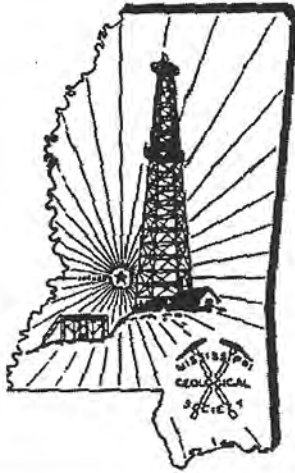
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MISSISSIPPI GEOLOGICAL SOCIETY

VOLUME 49

NUMBER 2

October, 2000

PRESIDENT'S LETTER

by *John Marble*

The fall Bar-B-Que was a resounding hit last week and I am heartened by both the attendance and the support. Many thanks to Dr. Ezat Heydari of the Office of Geology for the core party, and thanks also to Spooner Energy for allowing us to look at their core. In the rush to get the loose ends tied up for the Bar-B-Que, two of our supporters were left off the sponsors' list. Many thanks to Omni Laboratories and to Energen Resources for their help and donations. My apologies to these companies.

On Tuesday, October 10th we will start our regular luncheon schedule of meetings. We will begin the meeting at 11:30 A.M. in the Capitol Club. Please make your plans to attend this meeting and all those throughout the coming year. Another meeting of note is the G.C.A.G.S. annual convention in Houston this year. Meeting dates are October 25th through the 27th. The convention hotel is the Westin Galleria. Make your plans to attend. As announced at the Bar-B-Que, we are planning a field trip during the month of November. If it all works we will go to the Red Hills Lignite mine near Ackerman, Mississippi, and get a good look at the Wilcox. Watch for more details on firm dates and times.

What a difference a few weeks make in the world energy market. Oil prices higher than at any point over the last ten years. Natural gas prices are firming up nicely around \$4.00 per thousand, rig count is high. Sounds reminiscent of the late 1970's and early 1980's. I hope all of you involved with the oil and gas exploration can get deals put together and drilled this year. Sounds like a pretty good time to be in the exploration business, at least for the moment. The old adage "Make hay while the sun shines" may be good advice!

Not much else to add this month, other than a gentle reminder to get your dues in for the year. If you have had a change of address, or added an e-mail address please forward

to the Board of Directors. At the risk of sounding like a broken record, I would like to know what type of papers, exploration plays, seismic techniques, specific wells, cores, environmental issues and the like we could present this year. If there are any announcements or upcoming events that the membership needs to be aware of, please forward and we will get the word out.

Until next month.....keep turning to the right.

John Marble

MGS President 2000-2001

MGS Professional Luncheon *October 10th — 11:30 AM* *Capitol Club*

Utilization of Coherence Cube Volumes for Delineation of Structural and Stratigraphic Features in Clastic and Carbonate Sequences.

Stephen L. Chelette

Stephen Chelette has lived in Texas for over 15 years, having received his BS in Geology from Baylor University in Waco. Mr. Chelette began his career in the industry at Digicon, Inc. (1994) as a Processing Geophysicist, focusing primarily on the processing of 2D and 3D land data. During this time, he also ventured offshore several times to participate in the acquisition phase of 3D marine seismic data. In 1996, Stephen moved to Geco-Pradla/Schlumberger

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OFFICERS MEETINGS

September 5, 2000
 October 3, 2000
 November 7, 2000
 December 5, 2000
 January 2, 2001
 February 6, 2001
 March 6, 2001
 April 3, 2001
 May 1, 2001

PROFESSIONAL MEETINGS

September 21st — Fall BBQ – Ezat Heydari – Stringer Field
 October 10th — Stephen L. Chelette – Coherence Cubes
 November 14th — TBA
 December 14th — Christmas Party
 January 9th — TBA
 February 13th — TBA
 March 13th — TBA
 April 10th — TBA
 May 17th — Spring Fling

The Society's business, advertising, and program year runs consecutively from June through May. MGS publishes 9 bulletins per program year with the Membership Directory published each Spring as one of the monthly bulletins. Advertising sizes and rates are published in each bulletin. For questions or comments, see the MGS mast head above for your contacts.

Speaker Bio Continued

working as a Sr. Geophysicist and Crew Chief onboard seismic vessels around the globe. He has acquired and processed 2D and 3D data from the Gulf of Mexico, the North Sea and West of Shetlands, and from the southern tip of Argentina. Having tired of the nomadic lifestyle, Stephen then sought a more dynamic and versatile role, and accepted a position as Account Manager at Coherence Technology Company in January of 1999. During the summer of 1999, CTC merged with Core Laboratories and formed a union with one of its subsidiary companies, Scott Pickford. Mr. Chelette continues to focus his talents on the use of advanced seismic data processing techniques such as Coherence Cube processing to help extract additional information from 3D data sets.

Speaker Topic
Page 4

MGS ADVERTISING NOTICE !

It is time to place or renew your advertisement in the MGS Bulletin. Last year the MGS Board of Directors voted to change the advertising year (the calendar year) to coincide with the Society's business year which runs from June through May. This year's first issue of the Bulletin will be the September issue. Please place or renew your ad now. The specific ad sizes, prices, and options are outlined below.

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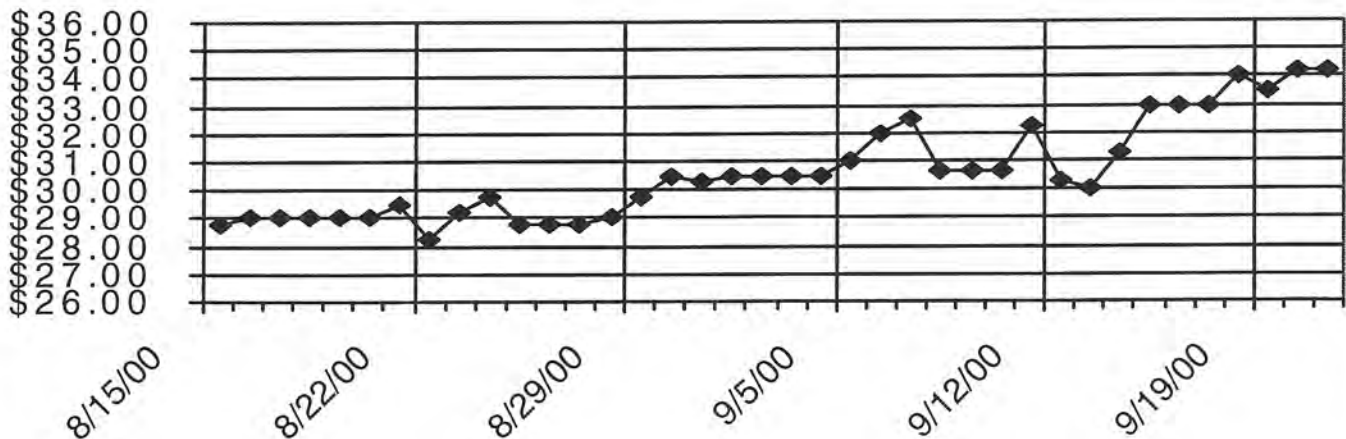
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Monthly Oil Price Chart

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



UTILIZATION OF COHERENCE CUBE VOLUMES FOR DELINEATION OF STRUCTURAL AND STRATIGRAPHIC FEATURES IN CLASTIC AND CARBONATE SEQUENCES

By Stephen L. Chelette

Increased growth in the use of 3D seismic coherence cube processing has significantly improved the understanding and ease of interpretation of the subsurface structure and stratigraphy throughout hydrocarbon provinces of the world.

Outlined here is a detailed description of the Coherence Cube™ methodology and its application to both onshore and offshore clastic and carbonate depositional environments. This presentation will provide insight into the various algorithms utilized in the technique, as well as demonstrate the power of this tool when used in conjunction with the conventional 3D seismic volume for interpretation and reservoir delineation.

Coherence Cube volumes are uniquely suited to enhance and increase understanding of 3D seismic surveys by providing the interpreter with critical information on structural and stratigraphic objectives, while allowing a geoscientist to truly visualize their three dimensional workspace. This incorporation of a true 3D volume into the interpretation workflow allows all project data to be evaluated for a comprehensive study of the geologic problem.

Fundamentally, Coherence Cube processing is the measurement of local waveform similarities within a global aperture defined in both space and time, utilizing dip and azimuth calculations. By computing seismic wavelet variations within a particular 3D data set we can focus on the subtle changes that have been recorded and preserved in a traditional processing sequence (Figure 1). It is these subtle changes in the relative waveform, as opposed to the more traditional technique of mapping amplitude variations, which provide insight into geological changes within the subsurface. By examining the amplitude, phase, and frequency of the seismic wavelet in finer mathematical detail, it is possible to garner additional information from the standard seismic volume thus improving interpretation accuracy in a more timely manner.

One of the most powerful uses of the Coherence Cube volume is its utilization for quickly delineating the trend of geological features thereby defining the structural framework and detailed stratigraphy within the data set before the initial interpretation phase. As the interpreter's understanding of the area increases, so does the value of the coherence cube volume as it minimizes overall risk in prospect assessment.

An example from South Marsh Island, Gulf of Mexico is provided, and represents approximately 60 square miles of 3D data (Figure 2.) Figure 2a is a time slice from the conventional migrated seismic data volume at 1208ms in which only rough approximations of the regional geology are visibly apparent. Figure 2b is a time slice from the Coherence Cube volume at the same time. Within this clastic depositional environment it is dramatically easier to visualize the structural and stratigraphic features such as channel edges and truncating faults from the Coherence Cube time slice, than it is from the seismic time slice. In comparing the response of the conventional migrated data vs. the Coherence Cube data, the migrated slice shows amplitude variations and hints at major faults and folds, while the Coherence Cube data focuses the interpreter's attention on the more subtle nature of the detailed structure and stratigraphy buried within those amplitudes and allows for much more accurate mapping. Also, spatial understanding of fault trends and paleolithological channelization are better understood from a 3-dimensional viewpoint as opposed to just a 2D perspective.

Eugene Island, Gulf of Mexico, provides another example of an offshore clastic depositional environment. Stratigraphic features such as complex channel systems have traditionally been difficult to map in great detail from migrated seismic data due to the chaotic nature of the seismic reflections they provide. Coherence Cube processing brings stratigraphic features into focus as it computes the variations in the waveform regardless of the amplitude of the reflectors. Lateral definition of these stratigraphic features can be seen best in the horizontal or time domain (Figure 3). Prior to Coherence Cube processing the top and bottom of lobate features would be mapped and an isochron computed. The drilling location would be selected through the thickest part of the channel in order to enhance the probability of encountering sands. With the incorporation of Coherence Cube processing on the data set the interpreter is able to utilize inline, arbitrary slices, or most importantly time slices for detailed interpretation of channels, levees, and crevasse splay deposits. This detailed interpretation assistance greatly aids in identifying discrete drilling targets and objectives in complex areas.

This technology is easily applied to onshore 3D seismic data as well, as demonstrated by an example from Lea County, New Mexico (Figure 5). This example is of a carbonate rich environment and shows, from a structural perspective, how easy it is to map and understand deep, complex faulting. The inline view shown here is taken from a Coherence Cube volume and clearly delineates a "flower type" fault structure. Structural features such as faults, lithological changes, anticlines, synclines, and fracturing are all frequently mapped through the recorded effects of Coherence Cube processing.

Other examples of clastic and carbonate environments, both onshore and offshore, will be presented from around the world.

A decorative border consisting of a repeating pattern of lightbulbs with rays emanating from them, surrounding the central text area.

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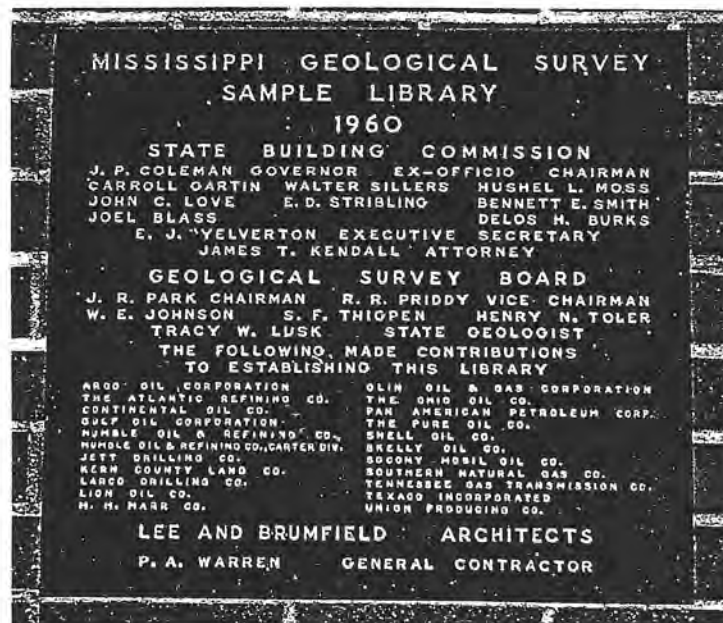
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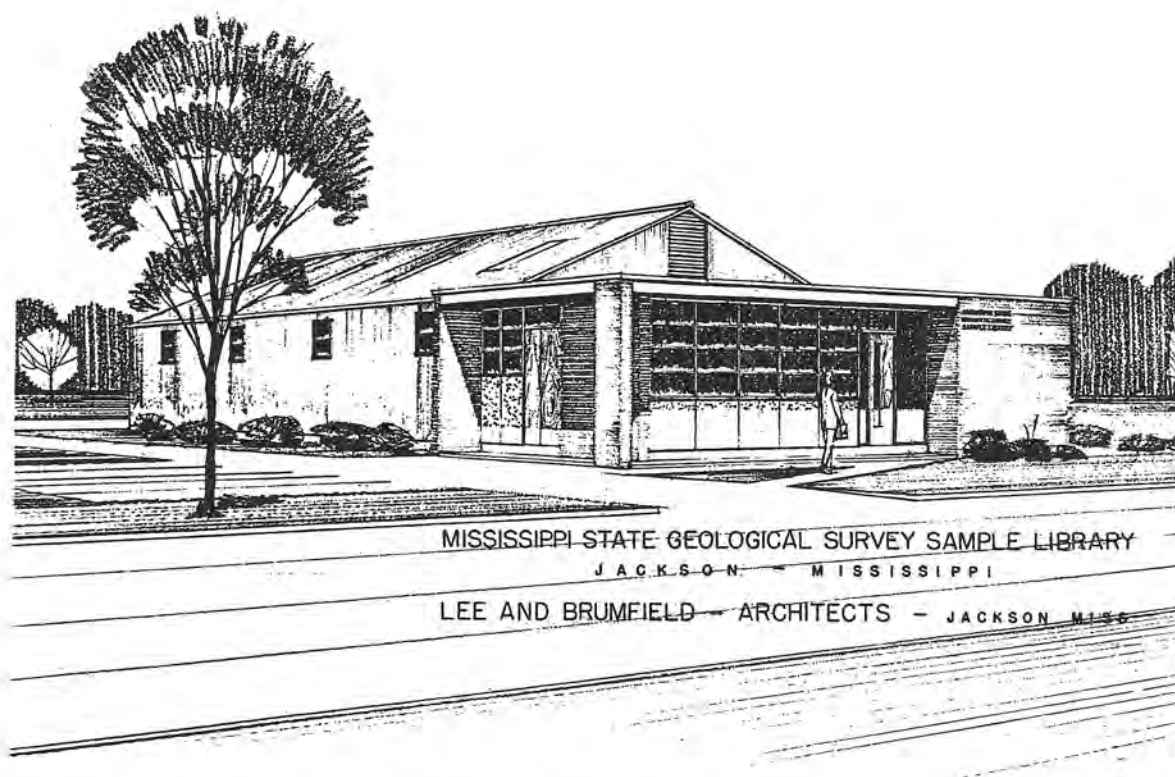
This year, 2000, marks the fortieth anniversary of the construction of the Mississippi Geological Survey Sample Library building at 2525 North West Street in Jackson. The name of the Survey is now the Office of Geology of the Mississippi Department of Environmental Quality. The building still houses the core and sample library, and a third of the Office's staff is based there.

In 1958 the Mississippi Geological Survey was located in Oxford on the campus of the University of Mississippi. That is where it had been based for most of its existence since it was established by the Legislature in 1850. For most of its history, the State Geologist, the director of the Survey, had served also as the head of the Geology Department at the university. That year the Legislature reorganized the Board governing the agency, which became the Mississippi Geological, Economic and Topographical Survey (Mississippi Geological Survey for short). The Survey became a separate state agency, severed from the university. Tracy W. Lusk was the State Geologist.

The Mississippi Geological Survey had long been involved with assisting and following developments in the petroleum industry in the state. Early Survey publications of interest to petroleum geologists included: Bulletin 15, *Oil and Gas Prospecting in Mississippi*, by E. N. Lowe, 1919; Bulletin 21, *Recent Oil and Gas Prospecting in Mississippi, with a Brief Study of Subsurface Geology*, by Ralph E. Grim, 1928; and Bulletin 36, *The Jackson Gas Field and the State Deep Test Well*, by Watson H. Monroe and Henry N. Toler, 1937. During the 1940s and 1950s when the Mississippi Geological Survey completed a large number of county geological bulletins, special effort was made in the surface geologic mapping to try to identify any evidence of structural features that might be of interest to oilmen. This effort was highlighted in 1939 with the discovery of beds out of place in a creek in Yazoo County by Survey geologist Frederic F. Mellen. A news release was put out, and all available information was published in Bulletin 39, *Yazoo County Mineral Resources*, released in 1940. This work led to the first commercial oil production in the state and the development of Tinsley Field, a giant oil field.



This plaque at the entrance to the building lists the names of the petroleum companies whose generous contributions made it possible for the State of Mississippi to establish the sample library in 1960.



Architect's drawing of the original building at 2525 North West Street, Jackson.

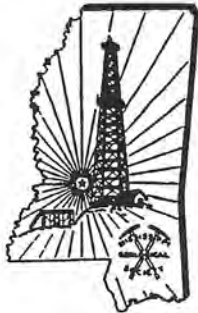
The reorganization of 1958 provided an opportunity for the Survey to establish a presence in Jackson, then the center of a vibrant oil and gas industry in the state. The state put up some money to build a sample library on state land in Jackson, with the intention of serving the petroleum geologists based and visiting there. The oil and gas companies listed on the plaque in the photograph contributed to making the project a reality, and the building was completed in 1960. Before long, the entire Survey was moved to the North West Street facility.

Over the years, as the core and sample collection outgrew the available space, additional warehouse buildings were added to the back of the building. The back of the property was reached in the last expansion.

The Survey underwent additional reorganization in 1979, when it became the Bureau of Geology of the Mississippi Department of Natural Resources, and again in 1989 when it became the Office of Geology of the Mississippi Department of Environmental Quality. The Office of Geology still operates the core and sample library in this building, but we have completely run out of space. The library holds 6650 wells with samples and 1215 wells with cores. We still actively seek cores and samples that might otherwise be lost to archive in the library and make available to researchers. We also pursue core and sample collections of companies that shut down or move operations out of the state. The need for additional storage space is critical.

Another change since 40 years ago is that anyone can now get on our Web site and see if we have cores in areas they are interested in. All the wells we have samples for will be posted on the Web site in the very near future. The address is <<http://library.geology.deq.state.ms.us>>.

We are pleased to take this opportunity to commemorate the successful collaboration 40 years ago between a state agency and the oil and gas industry of the state.



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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

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MGS 002SV\$50.00

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MGS 003SV\$15.00

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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.

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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.

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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.

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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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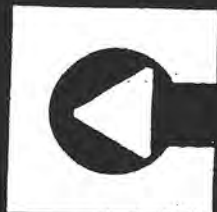
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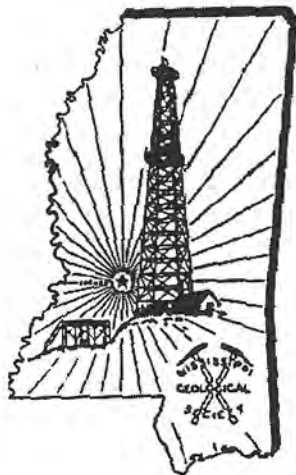
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MISSISSIPPI GEOLOGICAL SOCIETY

VOLUME 49

NUMBER 3

November, 2000

PRESIDENT'S LETTER

by *John Marble*

" Boy ain't it funny how time slips away?" The fall Bar-B-Que, our first regular Society meeting, the G.C.A.G.S. meeting in Houston have come and gone. Our next regular meeting on November 14, 2000, the field trip to the Red Hills Lignite Mine near Ackerman, Mississippi, the annual Christmas party are all upcoming! Combine all of the above with the changes and improvements in the monthly bulletin (thanks for the compliments), and the continued efforts toward our internet presence, and it all makes for a quick and busy start for our Society!

Speaking of the FIELD TRIP!! It is absolutely REQUIRED to make RESERVATIONS with me (601-354-6328), or Stan Thieling (601-961-5519) by 5:00 P.M. November 6, 2000. Stan has done a great job getting the arrangements made for us to go to the Red Hills Mine, and he deserves a big thanks!! It should be a great trip. Stories of 60'-80' highwall, exposed lignite seams, and all of the geology to go along with it. I don't know where a geologist could go to see an outcrop of Wilcox quite like this in one spot. Make plans and RESERVATIONS NOW!!! Plans are to leave at 8:00 A.M. November 18, 2000 and return by 5:00 P.M. that evening. Drinks and a box lunch will be included. Final details will be announced at the regular meeting in November, or you can call me or Stan.

Some announcements are in order, and then I'll close for this month. Teachers and educators, please get in touch with me concerning grants and awards. These monies are made available through several professional earth-science and/or geological organizations. I will forward information and requirements to you promptly. We need a person to serve as our "Awards and Nominations Chairman". This person would be responsible for supervising the nomination process, and making recommendations to the Board of Directors for awards such as Outstanding Educator, Distinguished Service, and Honorary Membership. These awards are made each year through the G.C.A.G.S. Let me know as soon as possible if you would be interested. It is important for our Society to be represented.

Finally,(bet you thought I wouldn't stop) thanks for all the help in getting the Society off to a busy start. Many of the changes were started last year on Stanley Kings tower, and we are committed to continue that work plus some more!! If it weren't for some good officers and volunteers, the Society would slowly sink. I personally want to thank you for your help.

Until next time.....We're upthrown and running high!! Good hunting!!

John Marble

MGS President 2000-2001

MGS Professional Luncheon November 14th — 11:30 AM Capitol Club

*An Eolian Facies within the Upper Jurassic Smackover
Formation, Tchula Lake Field, Mississippi*

William A. Tedesco & R.P. Major

The Upper Jurassic Smackover Formation in Mississippi is primarily composed of a regressive sequence of carbonate ramp deposits. In central Mississippi, however, carbonate deposition was interrupted by a large influx of siliclastic sediment. Tchula Lake Field produces gas condensate from dolomitic quartz sandstone deposited in a mixed siliclastic-carbonate environment. Several characteristics of the producing zone sandstones have led to interpretations of this unit as an eolian coastal dune facies deposited on a paleohigh.

Interpretations are based on compositions and textures described in cores and thin sections from the field. The eolian facies consists of fine-grained, dolomitic quartz sandstones with mean porosity of 10 - 20% and permeability of 0 - 800 md. The sand grains are

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 October 3, 2000
 November 7, 2000
 December 5, 2000
 January 2, 2001
 February 6, 2001
 March 6, 2001
 April 3, 2001
 May 1, 2001

PROFESSIONAL MEETINGS

September 21st — Fall BBQ – Ezat Heydari – Stringer Field
 October 10th — Stephen L. Chelette – Coherence Cubes
 November 14th — William Tedesco & R.P. Major - Tchula Lake
 December 14th — Christmas Party
 January 9th — TBA
 February 13th — TBA
 March 13th — TBA
 April 10th — TBA
 May 17th — Spring Fling

The Society's business, advertising, and program year runs consecutively from June through May. MGS publishes 9 bulletins per program year with the Membership Directory published each Spring as one of the monthly bulletins. Advertising sizes and rates are published in each bulletin. For questions or comments, see the MGS mast head above for your contacts.

Speaker Topic Continued

rounded to subrounded and well sorted. The sandstone exhibits a sequence of upward steepening planar laminations capped at the top by a set of small-scale wedge planar cross-laminations. The sharply defined, parallel lamina are less than 5 mm thick and are commonly inversely graded and contain vadose meniscus carbonate cements. This facies is interpreted to have been deposited as a backshore coastal dune. The unit is characterized by low angle (< 20-degree dip) climbing trans-lateral strata produced by the migration of wind ripples along a dune. No fossils or trace fossils are found within this facies.

Eolian deposited sandstone is a potential reservoir rock along the updip limit of the Smackover Formation in west-central Mississippi. Other paleohighs along the Jurassic shoreline may have undergone similar eolian deposition during a regional sea-level fall. Eolian deposited sandstones on these paleohighs should have similar reservoir properties as the sandstone at Tchula Lake Field. The updip Smackover Formation in west-central Mississippi is an incompletely explored horizon, and eolian deposited reservoirs have strong potential as a new exploration target.

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It is time to place or renew your advertisement in the MGS Bulletin. Last year the MGS Board of Directors voted to change the advertising year (the calendar year) to coincide with the Society's business year which runs from June through May. This year's first issue of the Bulletin will be the September issue. Please place or renew your ad now. The specific ad sizes, prices, and options are outlined below.

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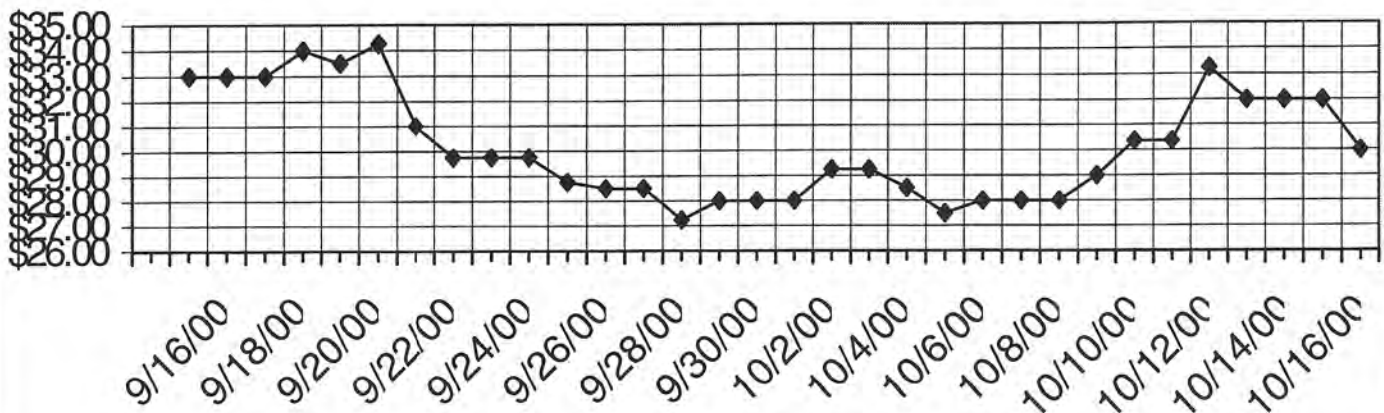
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Monthly Oil Price Chart

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



SPEAKER'S BIO

WILLIAM A. TEDESCO

William Tedesco received a B.S. Degree in Geology and geophysics from the University of Missouri-Rolla in May 1997. During the summer of 1997, he worked as an intern for Western Geophysical on a transition zone 3D seismic crew in coastal Louisiana. He received a Masters Degree in geology from the University of Mississippi in 1999. He is currently pursuing a Ph.D. degree in geology at the University of Mississippi specializing in carbonate sedimentology and diagenesis, stratigraphy and reservoir modeling

R.P. MAJOR

R.P. 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 in Denver. He has held several university teaching and/or research positions, notably at the University of Texas at Austin, the University of Colorado at Denver, and Union College. He is a former Senior Geologist with Amoco Production Company, and he has served on the editorial boards of the *Journal of Sedimentary Research* and the *American Association of Petroleum Geologists Bulletin*. Since 1998 he has been Professor and Chairman of the Department of Geology and Geological Engineering at the University of Mississippi.

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Announces a Technology Workshop

"Underdeveloped Plays and Reservoirs in the Mississippi Interior Salt Basin"

Capital Club, Capital Towers, 19th Floor
125 South Congress St.

Wednesday, November 8,
2000
8:30 a.m.–2:00 p.m.

Jackson, MS 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, ***"Underdeveloped Plays and Reservoirs in the Mississippi Interior Salt Basin."*** The purpose of the workshop is to transfer recent research findings on underdeveloped oil plays and reservoirs in the Mississippi Interior Salt Basin to operators in the Eastern Gulf Region to facilitate exploration in the area. This workshop is in cooperation with the National Petroleum Technology Office of the U.S. Department of Energy.

PROGRAM

8:30- 8:45	<i>Welcome and Introduction</i> —Brian Sims, PAG Chair
8:45- 9:30	<i>Framework of the Mississippi Interior Salt Basin</i> —Mark Puckett, University of Alabama
9:30- 9:45	BREAK
9:45- 10:30	<i>Hydrocarbon Migration Modeling in the Mississippi Interior Salt Basin</i> —Ernest A. Mancini, University of Alabama
10:30-11:30	<i>Petroleum Geology of Selected Fields in the Mississippi Interior Salt Basin</i> —Mark Puckett
11:30-12:30	LUNCH
12:30- 1:30	<i>Underdeveloped Plays and Reservoirs in the Mississippi Interior Salt Basin</i> —Ernest A. Mancini
1:30- 2:00	<i>Summary</i> —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 November 1, 2000. Please contact Ernest A. Mancini:

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

Telephone: (205) 348-4319
Fax: (205) 348-0818
E-mail: emancini@wgs.geo.ua.edu

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There is a \$25.00 registration fee to attend the workshop (payable by check only the day of the meeting).

Please make your check payable to: Petroleum Technology Transfer Council.

We look forward to your participation.

A LONG TIME AGO

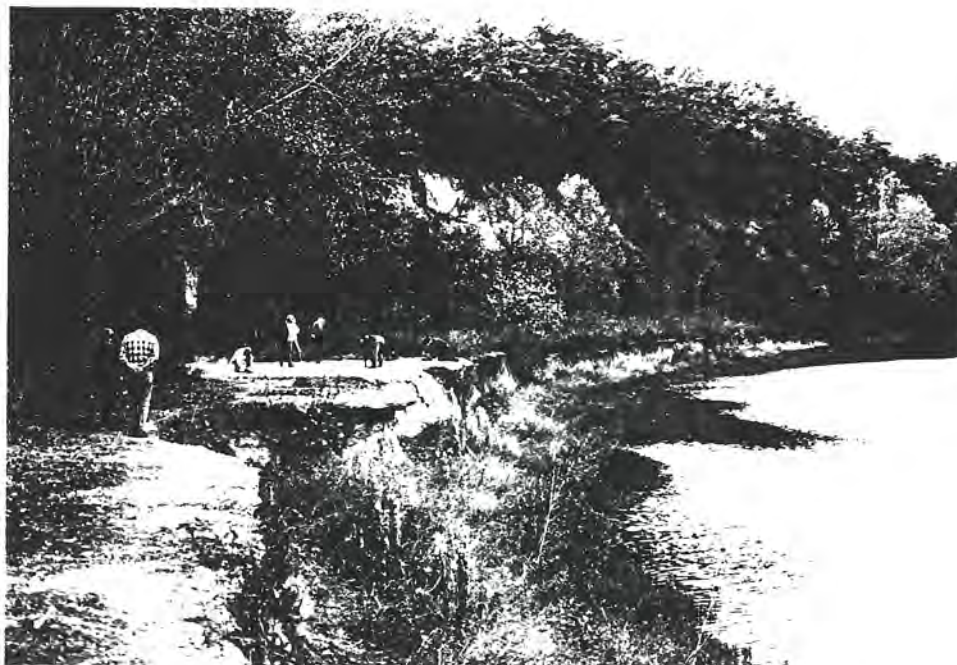
By Bill Moore

I was asked to write down some of the things that happened in the Society in a humorous vein, or as one person said, "something funny that happened a long time ago". I have been a member of the Society for fifty years, so I guess that takes care of "a long time ago". As for funny, it's a very subjective word, so you can decide that for yourself.

I joined the Society as a student member while attending Millsaps majoring in Geology. I went to a few of the monthly meetings and didn't find them too interesting. They were about the oil industry, and I wasn't contemplating a future in that arena. Fall of 1950 came, and the Society announced that it was having its annual field trip to study the Upper Cretaceous deposits in East Central and North Mississippi. Our department head at Millsaps insisted that we attend this field trip. We had gone on short field trips lasting a few hours, but this one was to be an overnight two-day trip.

On the appointed day some fifty cars assembled at the fairgrounds and started east on Highway 80. There were no interstates, and the two-lane Highway 80 was not very wide itself. We pulled into the Red Hot Truck Stop in Meridian. Some of the patrons and employees ran from the area, thinking it was some kind of federal raid. We went behind the truck stop to an outcrop of the Bashi Marl. This stop was not on our field trip road log, but no one passes the Red Hot without looking for fossils in the Bashi. We turned on Highway 45 and proceeded north across a small band of Wilcox and a wider band of Midway Shale, or, as it is called on the surface, Porter's Creek. By then the Highway Patrol had picked us up and was trying to lead us. When we reached the first stop our cars swung off the road, carrying with them 10 or 15 cars that had infiltrated the convoy. The drivers of those cars, seeing us leap from our vehicles and rush toward the side of the road, were completely confused and made the mistake of asking some of the geological party what was happening. They got a common answer – "We are looking at a contact at this outcrop." This caused several of them to curse, others to stand and look confused, and a few to follow us over to look at the outcrop and listen to the description being offered. Then the rest of them cursed, got in their cars and tried to get away from us. This intermingling on the highway continued to be a problem for the remainder of the trip.

Some of the stops on the trip required that we go down county roads, mostly gravel, to reach the assigned area. With 50 cars in the caravan, some of the people had to walk a good distance from their cars to the outcrop. This became increasingly more difficult when Dale (The Bear) Overmyer, carrying





Both photos show Plymouth Bluff on the Tombigbee River, one of the stops on the 1950 trip.

an axe handle, began to toss chert gravel into the air and bat it with the axe handle. As the rocks zipped past their ears, several people asked The Bear to cease and desist. They were met with a maniacal laugh from The Bear, who continued his game. Fortunately, the next two stops had no gravel around, and The Bear forgot his game and went to sleep in the back seat of a car for the remainder of the day.

We then realized that no one had made arrangements for lunch, so we descended on the first filling station/grocery store that we came to, which caused the proprietor to have a wonderful day of sales but be utterly terrified by the boisterous crowd. As we stopped at one outcrop, which was 50 or 60 feet high, I became aware of another phenomenon of field trips: a portion of the group always runs from their cars and runs, walks, crawls or is carried to the top of the outcrop. Of course, they can see nothing of the face of the outcrop from where they are, but they just have to be there. Naturally, they are the last people back to their cars, causing the rest of us to honk our horns. This influenced several other cars to pull off the highway, bringing the Highway Patrolman to try to control us. When we reached the Columbus area one more vehicle, carrying the only female who attended these field trips – one Winnie McGlamery – joined us. She was a paleontologist with the Alabama Geological Survey and was always attired in brown riding breeches, a long-sleeve shirt and an Australian cavalry hat. She would, when spoken to, fix you with an icy stare which said, “I know you are not a good geologist and I know you are going to mess up and I’ll be watching when you do.” The last time I saw her, 25 years later, she gave me that same look.

At day’s end we had reached Tupelo, where housing consisted of one motel (new) and a hotel (old). Those on expense accounts stayed at the motel and the rest of us at the old hotel. A number of Millsaps students who were World War II veterans, and a few company people, managed to find several cases of beer. In those days you could open windows by raising them. They drank the beer and threw the cans out the windows of the third and fourth floors until the Deputy Sheriff came and put them to bed.

The next day was pretty ordinary, with everyone saying how tired they were from all the hard work. In a short meeting we had when we reassembled at the fairgrounds, everyone pronounced this a wonderful field trip. Most everyone stood around and talked for a couple of hours about what we had seen. I don’t know that I learned a great deal from looking at the outcrops, but I did learn that if you ask 100 geologists what they saw you would get 100 different answers. . . . More to come.

This is for Harold, Ed and Gene.



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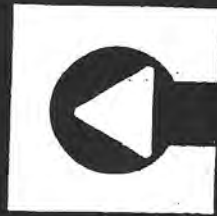
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He who laughs last, thinks slowest.

Everyone has a photographic memory;
some don't have film.

A day without sunshine is like, well, night.

On the other hand, you have different fingers.

Change is inevitable, except from a
vending machine.

When the chips are down, the buffalo is empty.

Those who live by the sword get shot by
those who don't.

He's not dead, he's electroencephalographically
challenged.

You have the right to remain silent. Anything
you say will be misquoted, then used
against you.

Latest survey shows that 3 out of 4 people
make up 75% of the world's population.

Just remember... if the world didn't suck,
we'd all fall off.

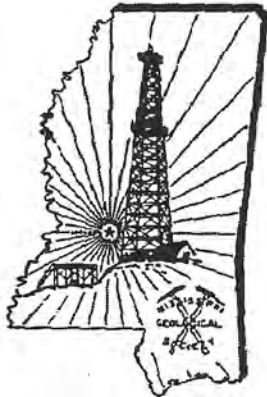
It was recently discovered that research causes
cancer in rats.



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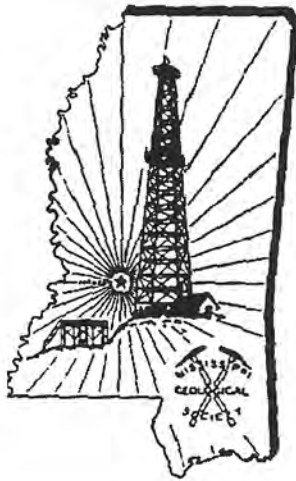
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MISSISSIPPI GEOLOGICAL SOCIETY

VOLUME 49

NUMBER 4

December, 2000

PRESIDENT'S LETTER

by *John Marble*

Optimism is a wonderful thing. For those who did not get a chance to attend the G.C.A.G.S. Annual Convention this past month, optimism was an oft used word. Albeit tempered with a humble dose of realism, most people I met were optimistic and upbeat. Our past regular meeting was a reflection of some of this optimism. It has been awhile since we have had to add tables and chairs at our meetings. What a great problem to have!!! Our attendance was up approximately 40% at the last meeting.

For those members who could not attend the past meeting Mr. Harold Karges was awarded Honorary Membership (posthumously) in our Society. Mr. Charlie Williams places Harold's name in nomination before the Board of Directors for consideration of this award. The Board of Directors vote was unanimous to confer this award for Harold. Charlie outlined some of Harold's accomplishments in his nomination speech and I was surprised at the amount of work Harold quietly did in his background. His influence in the Society and on Geology will be missed. Sadly, Mr. Ernie Boswell has passed. Mr. Boswell's influence as a geologist/hydrologist with the U.S.G.S., and M.D.E.Q. will be sorely missed. I first met Mr. Boswell twenty-six years ago at the Bounds Street office of the U.S.G.S., and he promptly introduced me to the geological world of fresh water. His knowledge has been documented in numerous works done by him or in conjunction with others, and these studies are referenced every day.

Time for a few announcements and I will close. The field trip to the Red Hills Lignite Mine has been postponed. We will attempt to reschedule a time in late February or March. Watch the newsletter for details as the date and time firms up. The Society's Christmas Party will be held on December 7, 2000 at 4:00 P.M. in the Capitol Club. Please note that this date is indeed different that published before. Costs will be \$10.00 per person and a cash bar will be provided. The new date and time is December 7, 2000 at 4:00 P.M. I would like to invite members of our sister Societies' to come and join us at the party for food and fellowship. For those members of the Desk and Derrick, the Geophysical Society, and the Landmans Association who can be there it would be a great forum for swapping "war stories".

Until the Party and next month,

John Marble

MGS President 2000-2001

***NO MGS Professional Luncheon
THIS MONTH***

***MGS ANNUAL CHRISTMAS
PARTY***

DECEMBER 7TH - 4:00 PM

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CAPITOL CLUB***

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MGS Meeting Schedules :

OFFICERS MEETINGS

September 5, 2000
 October 3, 2000
 November 7, 2000
 December 5, 2000
 January 2, 2001
 February 6, 2001
 March 6, 2001
 April 3, 2001
 May 1, 2001

PROFESSIONAL MEETINGS

September 21st — Fall BBQ – Ezat Heydari – Stringer Field
 October 10th — Stephen L. Chelette – Coherence Cubes
 November 14th — William Tedesco & R.P. Major - Tchula Lake Field
December 7th — CHRISTMAS PARTY
 January 9th — TBA
 February 13th — TBA
 March 13th — TBA
 April 10th — TBA

The Society's business, advertising, and program year runs consecutively from June through May. MGS publishes 9 bulletins per program year with the Membership Directory published each Spring as one of the monthly bulletins. Advertising sizes and rates are published in each bulletin. For questions or comments, see the MGS mast head above for your contacts.

Lost Worlds in Alabama Rocks

By: Jim Lacefield

In its long prehistory, Alabama has been just about everything; a forested wilderness full of strange animals, a warm, shallow sea, a fetid peat swamp, a salt desert, a meteor-blasted waste, a mountain range as high as the Himalayas. Time and again, the state has been submerged by rising seas and crossed by wandering rivers, leaving fossils that make Alabama a favorite destination for collectors. Jim Lacefield tells his story in plain words, with up-to-date discoveries illustrated in full color and made vivid by comparisons to living creatures and environments. But be warned: This book will make you want to see the rock and fossil evidence for yourself!

Andrew K. Rindsberg

\$25.00 checks to Alabama Geological Society Treasurer, Alabama Geological Society
P.O. Box 866184
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Income from the sale of *Lost Worlds in Alabama Rocks* will be used to support educational outreach activities of the Alabama Geological Society.

MGS ADVERTISING NOTICE !

It is time to place or renew your advertisement in the MGS Bulletin. Last year the MGS Board of Directors voted to change the advertising year (the calendar year) to coincide with the Society's business year which runs from June through May. This year's first issue of the Bulletin will be the September issue. Please place or renew your ad now. The specific ad sizes, prices, and options are outlined below.

PLEASE SUBMIT YOUR AD (if new or changed from last year) ALONG WITH THIS SHEET AND PAYMENT TO:

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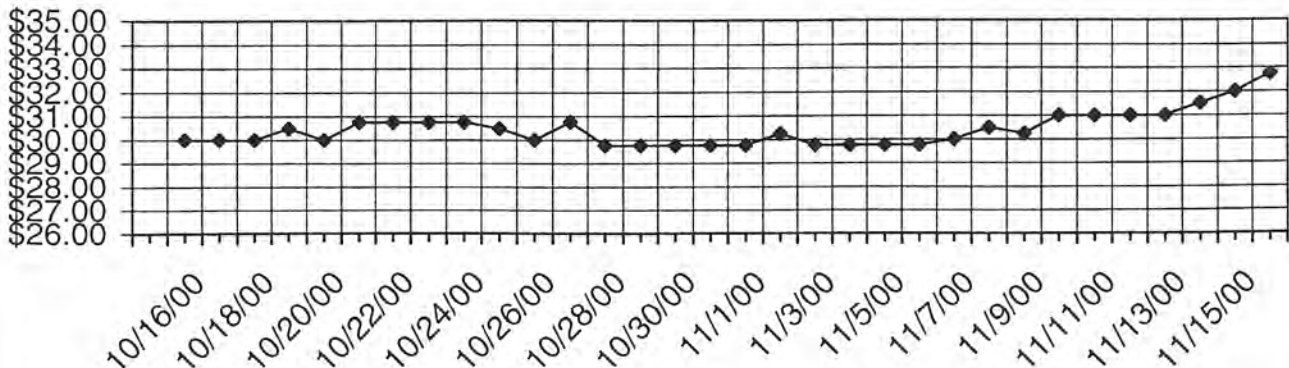
** camera ready copy required for these sizes (new or changed ad only). Please contact Editor Aaron Lasker (601) 939-3200 or Steve Jennings (601) 961-5205 for details. Please note that the Bulletin is not published in the summer months.

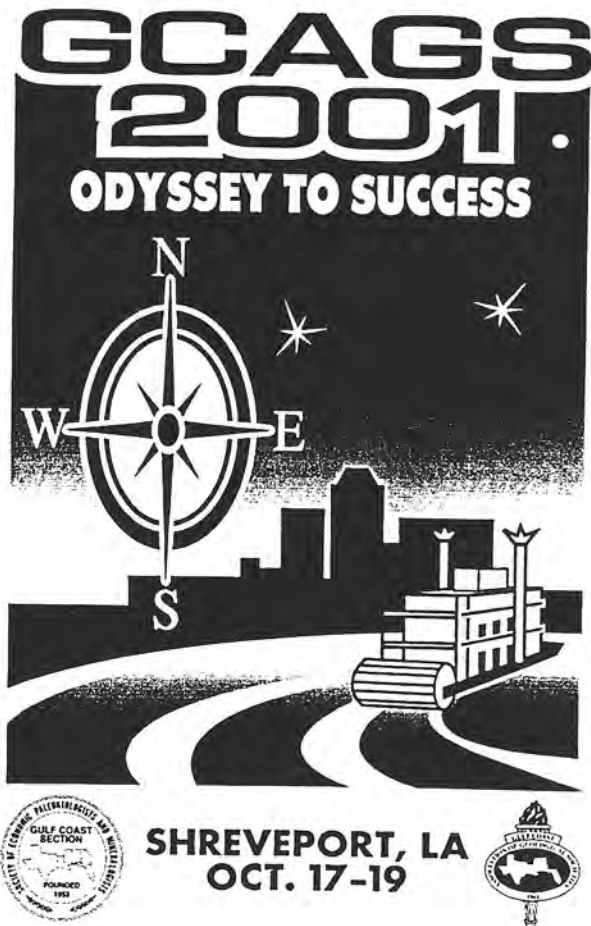
Monthly Oil Price Chart

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





Call For Papers

Abstract Deadline:
January 12, 2001

For Abstract Guidelines,
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(318)-221-0761

E-mail: tcwych@aol.com

Or

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Capital Club, Capital Towers, 19th Floor

Wednesday, December 6,

Jackson, MS 39201

2000

125 South Congress St.

8:30 a.m.–3:30 p.m.

Telephone (601) 969-7101

The Eastern Gulf Region of the Petroleum Technology Transfer Council and Mississippi State Board of Registered Professional Geologists invites oil and gas producing and related companies operating in Mississippi, Alabama and Florida to participate in a Technology Workshop entitled, *"Advanced Geophysical Logging Technologies for Aquifer and Environmental Site Characterization."* The purpose of the workshop is to transfer recent research findings in advanced geophysical logging technologies and their application to aquifer and environmental site characterization. This workshop is in cooperation with the National Petroleum Technology Office of the U.S. Department of Energy.

PROGRAM

Geophysical logs represent a mature technology used in the groundwater and environmental industry for aquifer and unsaturated zone characterization. Advanced logging technologies, developed for the petroleum industry, are now being applied to characterization and monitoring of groundwater supply resources, and existing and potential subsurface disposal sites. Geophysical logging systems are designed to give an accurate and precise measurement of formation properties. Formation parameters commonly measured include porosity, moisture content, bulk geochemistry, hydraulic conductivity, orientation of bedding and fractures, identification and quantification of specific radionuclides and other elements and many others. Logging systems can also be used for downhole sampling and testing.

The integration and synergy of multiple logging technologies plus other data types (e.g., geologist's log, core analyses, surface geophysics, hydrologic test analyses) can lead to a fairly comprehensive picture of the shallow subsurface. The precision of the measurements in concert with the potential to measure the same volume repeatedly (i.e., re-enter the same borehole) enhances the use of logging systems for monitoring.

This workshop will examine how integrated geophysical logging technologies are helping to: (1) identify, characterize, and monitor aquifers for effective groundwater utilization and storage, (2) identify, characterize, and monitor where waste or other substances have accumulated after leakage or disposal, and (3) to assess potential subsurface repositories for hazardous and radioactive waste. A background on how the technologies work will be provided and several case studies showing how they are being advanced to address these needs in the groundwater, environmental, and waste disposal industries will be described.

Ned Clayton and Rick Lewis of Schlumberger Integrated Water Solutions, Englewood, Colorado will conduct the workshop.

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 30, 2000. Please contact Ernest A. Mancini:

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

Telephone: (205) 348-4319

Fax: (205) 348-0818

E-mail: emancini@wgs.geo.ua.edu

Register on-line at <http://egrpttc.geo.ua.edu>

Workshop Registration Form—December 6, 2000

(Please type or print requested information and provide complete mailing address for our records.)

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(Last)	(First)	(Middle)
Affiliation		
Mailing Address		
City	State	Zip Code
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Preferred Name on Badge		

There is a \$25.00 registration fee to attend the workshop (payable by check only the day of the meeting). Please make your check payable to: Petroleum Technology Transfer Council. We look forward to your participation.

AAPG Foundation Energy Resources Library

As announced in the April 2000 issue of *The AAPG Explorer* the AAPG Foundation Library has joined the Oklahoma Department of Libraries (ODL) system, making our collection available for online searching. By being online, the Library with over 4000 volumes of books, journals, and non-print material is now available for online title searching.

If you haven't used the services of the AAPG Foundation Library, we invite you to do so. You can search the new database by going directly to our Web address <http://www.aapg.org/foundation/library/index.html> and at the bottom of the page click the "Impact Online Book Search" link.

If you don't find what you are looking for in our library database ("AAPG Holdings") you can expand your search to encompass all of the libraries within the Oklahoma Department of Libraries system.

In addition services of the library include geological database searches, reference work, and photocopies. Call us with your request and we'll be happy to help.

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Email: library@aapg.org

Librarians: Mary Kay Grosvald (8:30am – 12:30pm)

Karen Piquene (12:30-4:30pm)



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Publications of the MISSISSIPPI GEOLOGICAL SOCIETY

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

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

Composite Mesozoic Log of South Mississippi and South Alabama.

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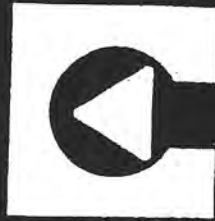


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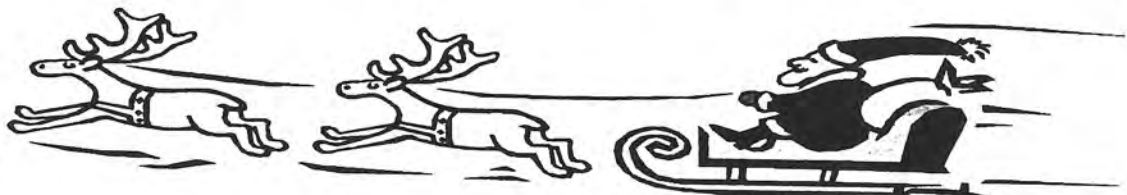
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Mark Twain said it:

*By trying, we can easily learn to endure
adversity. Another man's, I mean.*

*Few things are harder to put up with than
the annoyance of a good example.*

*There is nothing you can say in answer to
a compliment. I have been complimented
a great many times, and they always
embarrass me -- I always feel that they
have not said enough.*

*Man is the only animal that blushes.
Or needs to.*

*The rule is perfect: in all matters of opinion
our adversaries are insane.*

*I always pass on good advice. It is the
only thing to do with it. It is never of
any use to oneself.*

*Such is the human race. Often it does
seem such a pity that Noah and his
party did not miss the boat.*



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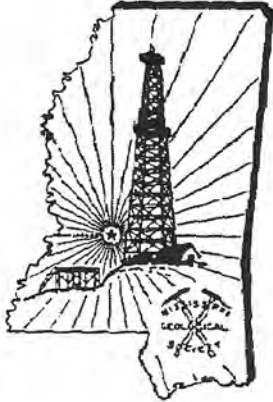
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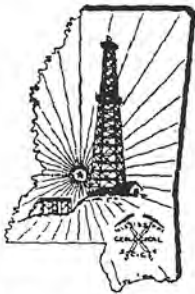
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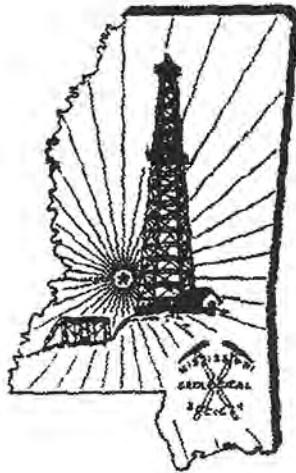
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MISSISSIPPI GEOLOGICAL SOCIETY

VOLUME 49

NUMBER 5

JANUARY, 2001

PRESIDENT'S LETTER

by *John Marble*

By the time you all read this we will be in the middle of the Christmas and the New Year holidays and celebrations. I hope the holidays find you well, healthy, and prosperous. It was good to see all of you at the Christmas party last month. I heard a lot of positive talk about the increase in activity in the MAFLA area, and that IS good news. Although the price of oil has dipped a little over the past few months, it remains high enough to foster new exploration. Natural gas prices are really good right now and seem to be moving gas prospects at a pretty good clip. All in all, it looks at least stable for the short term.

I would like to remind you of the next regular meeting scheduled for January 9, 2001. Dr. Ezat Heydari of the Office of Geology will be presenting the program and I know it will be interesting. Please make your plans to attend. The regular meeting of the Board of Directors will be changed this month from January 2, 2001 to January 16, 2001. I hope this change will work better during the holidays.

The field trip to the Red Hills Lignite Mine is tentatively scheduled for the 24th of March, 2001. We will be furnishing the details as they are flanged up. We will leave from Jackson approximately 8:00 A.M., and return that evening about 5:00 P.M. A box lunch and soft drinks will be provided. There will be a slight charge to help defray the costs of the vans, lunches, drinks, and the field trip guide. It will be a one day trip.

There is not much else to add. If you have any announcements, meetings, or any thing of interest to the membership please let me know. I'll get it out to the membership if at all possible. As always, if you have any comments or observations regarding your Society, please let someone know and we will try to answer your questions or fix the problem if need
Until next month....good hunting!!!!!!

John Marble

MGS President 2000-2001

MGS Professional Luncheon

January 9th — 11:30 AM

Capitol Club

Sedimentological Characteristics and Climatically Controlled Redox Cycles in the Demopolis and Mooreville Formations, Mississippi

Ezat Heydari

Mississippi Office of Geology

The Mooreville Formation and the Lower Member of the Demopolis Chalk consist of numerous redox cycles, ranging in thickness from 0.3 to 5 m (1-15 feet). Each cycle is composed of a basal dark, laminated section, grading upward into a gray, wispy laminated interval, and capped by a white, bioturbated layer. The basal laminated section indicates sedimentation anoxic bottom water conditions, hostile to burrowing organisms. The wispy laminated interval indicates that bottom waters became slightly oxygenated and organisms tolerant of low oxygen conditions were sparsely present. The bioturbated layer at the top of each cycle is indicative of deposition under fully oxygenated conditions. Wet climate initiated deposition of the laminated layer at the base of each cycle by delivering a large volume of siliclastics and terrestrial organic matter to the basin, resulting in bottom water anoxia. The subsequent arid climate promoted precipitation of carbonate-rich, bioturbated strata capping each cycle. The middle member of the Demopolis Formation is a massive, highly bioturbated chalk. It contains abundant trace fossils including *Thalassinoides*, *Planolites*, *Chondrites*, *Teichichnus*, and *Zoophycos*. A very shallow burrowing event generated a background-mottled texture apparent in all samples. *Thalassinoides* was one of the earliest burrows to form, as evidenced by its reworking by other trace fossils. It was followed by *Planolite*, *Teichichnus*, and *Zoophycos*. *Chondrites* reworked all other trace fossils and was the last bioturbation episode to have influenced the chalk.

MISSISSIPPI GEOLOGICAL SOCIETY 2000 – 2001

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MGS Meeting Schedules :

OFFICERS MEETINGS

September 5, 2000
 October 3, 2000
 November 7, 2000
 December 5, 2000
 January 16, 2001
 February 6, 2001
 March 6, 2001
 April 3, 2001
 May 1, 2001

PROFESSIONAL MEETINGS

September 21st — Fall BBQ – Ezat Heydari – Stringer Field
 October 10th — Stephen L. Chelette – Coherence Cubes
 November 14th — William Tedesco & R.P. Major -Tchula Lake Field
December 7th — CHRISTMAS PARTY
 January 9th — Ezat Heydari – Demopolis & Mooreville Form.
 February 13th — TBA
 March 13th — TBA
 April 10th — TBA
 May 17th — Spring Fling

The Society's business, advertising, and program year runs consecutively from June through May. MGS publishes 9 bulletins per program year with the Membership Directory published each Spring as one of the monthly bulletins. Advertising sizes and rates are published in each bulletin. For questions or comments, see the MGS mast head above for your contacts.

Lost Worlds in Alabama Rocks

By: Jim Lacefield

In its long prehistory, Alabama has been just about everything: a forested wilderness full of strange animals, a warm, shallow sea, a fetid peat swamp, a salt desert, a meteor-blasted waste, a mountain range as high as the Himalayas. Time and again, the state has been submerged by rising seas and crossed by wandering rivers, leaving fossils that make Alabama a favorite destination for collectors. Jim Lacefield tells his story in plain words, with up-to-date discoveries illustrated in full color and made vivid by comparisons to living creatures and environments. But be warned: This book will make you want to see the rock and fossil evidence for yourself!

Andrew K. Rindsberg

\$25.00 checks to Alabama Geological Society
Treasurer, Alabama Geological Society
P.O. Box 866184
Tuscaloosa, AL 35486-0055

MGS ADVERTISING NOTICE !

It is time to place or renew your advertisement in the MGS Bulletin. Last year the MGS Board of Directors voted to change the advertising year (the calendar year) to coincide with the Society's business year which runs from June through May. This year's first issue of the Bulletin will be the September issue. Please place or renew your ad now. The specific ad sizes, prices, and options are outlined below.

PLEASE SUBMIT YOUR AD (if new or changed from last year) ALONG WITH THIS SHEET AND PAYMENT TO:

MISSISSIPPI GEOLOGICAL SOCIETY
P.O. BOX 422
JACKSON, MISSISSIPPI 39205-0422
Attention: Steve Jennings

Thank you for your cooperation and support for the Society. Your prompt reply will be appreciated.

AD SIZE SELECTION: (please check size desired) RATE (per year):

— ½" X 3 ½"	\$ 40.00
— 1" X 3 ½"	\$ 75.00
— 1 ¼" X 2 ½" **	\$ 80.00
— 1 7/8" X 3 ½" ** (business card)	\$100.00
— 1 ¾" X 4 ½" **	\$150.00
— 4 ½" X 3 ½" ** (1/4 page)	\$200.00
— 4 ½" X 7 ½" ** (1/2 page)	\$300.00
— 9" X 7 ½" ** (full page)	\$500.00
— check here also if your ad is to be the same as last year	

** camera ready copy required for these sizes (new or changed ad only). Please contact Editor Aaron Lasker (601) 939-3200 or Steve Jennings (601) 961-5205 for details. Please note that the Bulletin is not published in the summer months.

SPEAKER'S BIO

Ezat Heydari's educational background in geology includes a B.S. degree from Tehran University in Iran, a master's degree from Penn State University, and a Ph.D. degree from Louisiana State University. He worked for several years as a research scientist at LSU before joining the Mississippi Office of Geology. His research interests revolve around deposition environments, diagenesis, and geochemistry of carbonate and siliclastics rocks.

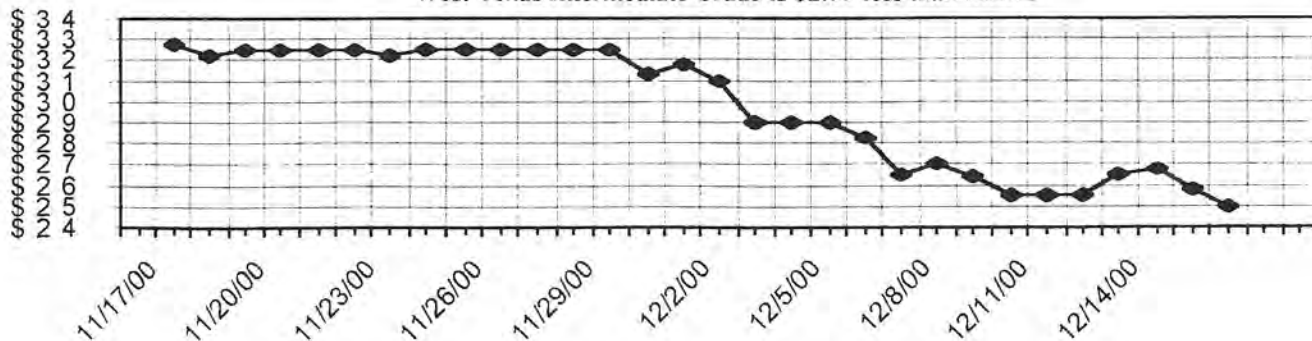
HAPPY HOLIDAYS

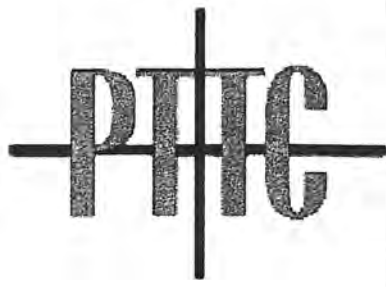
Monthly Oil Price Chart

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

West Texas Intermediate Crude is \$2.99 less than MERC





**EASTERN GULF REGION
PETROLEUM TECHNOLOGY TRANSFER COUNCIL**

Announces a Software Workshop

"Kingdom 2d/3d PAK – Beyond the Basics"

Eagle Ridge Conference Center
PMB 11263

Monday, January 29, 2001
8:30 a.m.–4:00 p.m.

Raymond, MS 39154
Telephone (601) 857-7100

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 Workshop entitled, ***"Kingdom 2d/3d PAK – Beyond the Basics."*** This one day course will be taught by Kevin Hill of Hill Geophysical Consulting, Shreveport, LA. Participants will have a "hands on" opportunity to use the more advanced tools in Kingdom. Only one person will be working at a machine. Topics will include attributes, well query, import – export, contouring, short cuts, and the many tools available. The 3d data set will be a small, simple set, allowing participants to concentrate on the tasks to be shown. It is recommended that participants have a basic working knowledge of Kingdom in order to participate in the workshop. The class will be fast paced and cover a lot of information.

Due to limited seating, registration is only open to the first 20 people, so be sure to register early. The deadline for registration is January 19, 2001. Please contact Ernest A. Mancini:

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

Telephone (205) 348-4319
Fax (205) 348-0818
E-mail: emancini@wgs.geo.ua.edu

Register on-line at: <http://egrpttc.geo.ua.edu>

Workshop Registration Form—January 29, 2001

(Please type or print requested information and give complete mailing address for our records.)

Name			
	(Last)	(First)	(Middle)
Affiliation			
Mailing Address			
City	State	Zip Code	
Telephone	Fax	E-mail	
Preferred Name on Badge			

There will be a \$25.00 fee to attend the workshop, payable by **check only**, to the Petroleum Technology Transfer Council (PTTC) on Jan. 29, 2001, at the workshop. We look forward to your participation.

Harold Earl Karges

By Charles H. Williams, Jr.

Harold Earl Karges was recently made an honorary member of the Mississippi Geological Society. The requirements for nomination for this prestigious recognition are that the nominee be a member-in-good-standing and that, through scientific activity and contributions to the society and the community as a whole, have brought favorable recognition to MGS.

Harold Karges was a native of Wichita Falls, Texas. He attended public schools in Tulsa and Ponca City, Oklahoma and Ft. Worth, Texas. Thus, the oil patch was a friendly environment which provided the daily livelihoods to friends and neighbors and was a natural influence guiding Harold to become a petroleum geologist. And few, indeed, have been better at it.

After serving his country for two years active duty in the Navy, Harold attended Texas Christian University in Ft. Worth, Texas, obtaining a B. A. degree in geology with honors in 1948. The Queen of Holland acquired his services when he signed on as a geologist with Royal Dutch Shell in Carlsbad, New Mexico. He transferred in 1949 to Lake Charles, Louisiana and in 1952 to Jackson, Mississippi. In 1955 he resigned from Shell to begin what was always his goal – to be an independent consulting geologist. So respected was he that many investors would buy into an oil or gas deal only if Harold recommended it. He was not only very successful as a consultant, but also as an independent oilman. His successes are too numerous to specify, but, in summary, he was directly responsible for sixteen discoveries, twenty-three extensions and five new pays in existing fields. He was proud that his work provided meaningful employment to so many; it continues to do so. Some of you may have seen the headline announcement of the November 6, 2000, issue of the Southeast Oil Review. Canadian Delta will drill the #1 Harold Karges, a Norphlet test, at Pelahatchie Field.

Harold was a member-in-good-standing of the Mississippi Geological Society for 48 years, during which he chaired numerous committees. He also was a Certified Petroleum Geologist, member of the American Association of Petroleum Geologists, a Certified Professional Geologist, member of the American Institute of Professional Geologists, member of the Society of Independent Earth Scientists, Society of Economic Paleontology and Mineralogists, Mississippi Academy of Sciences and other geological societies – all significant scientific organizations in which Harold served as an active committeeman on important assignments. He authored several acclaimed publications of the Gulf Coast Association of Geological Societies. He was a designated member of the Petroleum Technology Delegation to the Peoples Republic of China in 1983 and to Australia and Indonesia in 1984. Harold also maintained an involvement in industry affairs as a valued member of the Independent Petroleum Association of America and Mid-continent Oil & Gas Association.

There are, of course, numerous measures of Harold's generosity with his time and resources in community and youth affairs. He served as scoutmaster and saw to it that his troops attended Boy Scout camp in the summers. Harold once read a newspaper article about a local student unknown to him who desired to compete in the world karate tournament in Europe. Harold promptly provided all of the expense money to send the young man to that competition. He anonymously paid college expenses for several students, and he was always among the first to quietly help colleagues in need.

Thus, in addition to his outstanding scientific acumen, Harold Earl Karges in so many other ways brought honorable and favorable recognition to the Mississippi Geological Society.

Harold and his wife, Nancy, were the parents of two sons and three grandchildren.

Harold Karges departed this earth on May 18, 2000.

RECENT PUBLICATIONS OF THE MISSISSIPPI OFFICE OF GEOLOGY

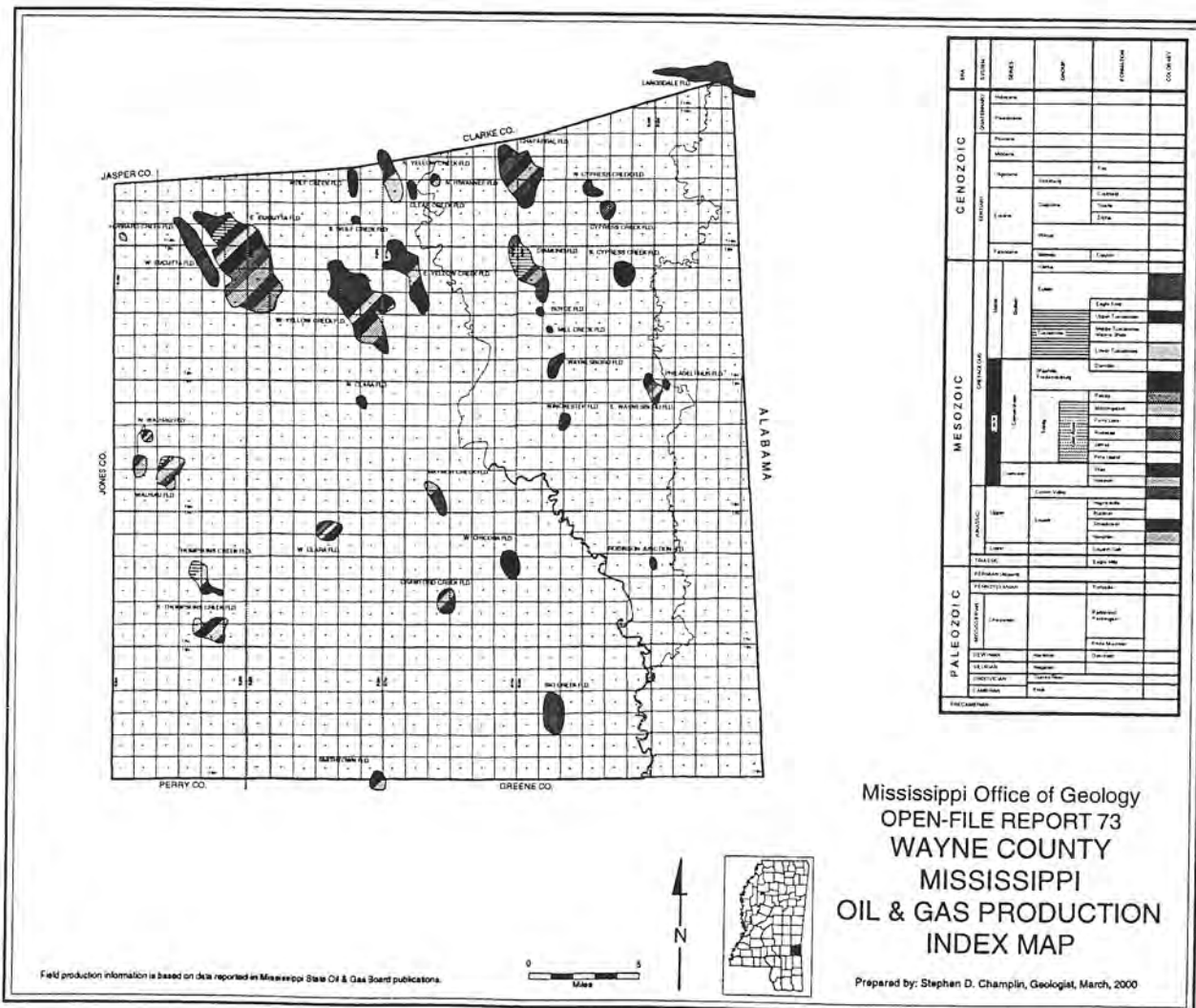
Michael B. E. Bograd
Mississippi Office of Geology

The Mississippi Office of Geology has begun publishing a series of county oil and gas production index maps in the Open-File Report series. The maps published during calendar year 2000, all authored by Stephen D. Champlin, are listed below in alphabetical order. The series will include all counties having oil or gas production. These maps are also available on the Office of Geology Web site in an interactive mode that allows the user to pan, zoom, and link to field and well production and other data.

OF72. Amite County
OF87. Clarke County
OF117. Forrest County
OF86. Hancock County
OF85. Hinds County
OF89. Jasper County

OF88. Jones County
OF90. Monroe County
OF116. Oktibbeha County
OF119. Pearl River County
OF118. Pike County
OF91. Pontotoc County

OF112. Rankin County
OF74. Simpson County
OF114. Smith County
OF73. Wayne County
OF113. Yazoo County



Map example provided by Stephen D. Champlin

The Office of Geology continues to publish detailed geologic maps of topographic quadrangles, also in the Open-File Report series.

- OF92. Geologic Map of the Hickory Flat Quadrangle, Union, Benton, and Marshall Counties, Mississippi, scale 1:24,000, by David E. Thompson - available June 2000
- OF93. Geologic Map of the Chilli Creek Quadrangle, Benton County, Mississippi, scale 1:24,000, by David E. Thompson - available June 2000
- OF94. Geologic Map of the Whitten Town Quadrangle, Tippah and Benton Counties, Mississippi, scale 1:24,000, by David E. Thompson - available June 2000
- OF95. Geologic Map of the Camp Hill Quadrangle, Benton and Tippah Counties, Mississippi, and Hardeman County, Tennessee, scale 1:24,000, by David E. Thompson - available June 2000
- OF35. Geologic Map of the Fearn Springs Quadrangle, Noxubee and Winston Counties, Mississippi, scale 1:24,000, by David E. Thompson - available September 2000
- OF38. Geologic Map of the Betheden Quadrangle, Winston County, Mississippi, scale 1:24,000, by David E. Thompson - available September 2000

Additional releases include the following:

- OF110. Biennial Report of Sand Beaches; Hancock County, 1999, by Keil Schmid - available April 2000
- OF111. Biennial Report of Sand Beaches; Harrison County, 1999, by Keil Schmid - available April 2000
- OF115. Earthquake Epicenters in Mississippi (map, scale 1:500,000), by Michael B. E. Bograd - available May 2000
- Fact Sheet 1. Earthquakes in Mississippi, by Michael B. E. Bograd - available May 2000

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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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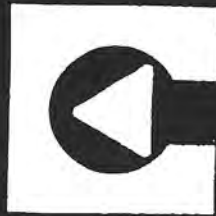


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Carl Jung on committees

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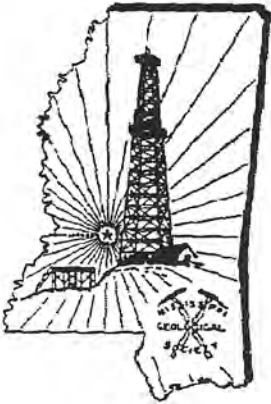
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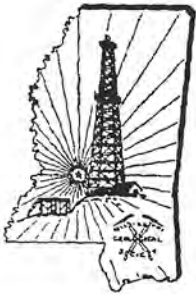
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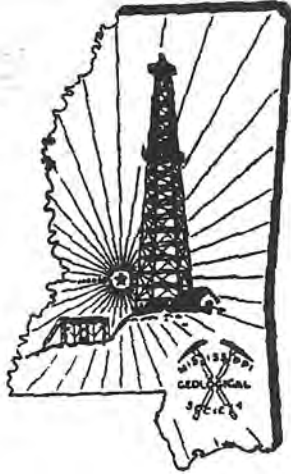
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MISSISSIPPI GEOLOGICAL SOCIETY

VOLUME 49

NUMBER 6

FEBRUARY, 2001

PRESIDENT'S LETTER

by *John Marble*

Can it get any better?? I am reminded of the bumper sticker of a few years back that goes something like this, "Lord, please give us one more boom, and I promise not to goof it up!" Rig counts are high, prices are high, and it appears, if you can believe all that is being talked about, that it may be around a little while. Sounds good to me.

Thanks to Dr. Ezat Heydari for the stand-up comedy routine (if you weren't at the last meeting, you missed it), and the very interesting presentation on the Chalk. I think most of us overlook this type data and what it can mean to us in the profession.

Thanks again for the presentation, and to Larry Baria for getting the programs together.

The field trip to the Red Hills Lignite Mine is set for March 24, 2001. We will meet at Millsaps College in Jackson, and plan to leave at 8:00 A.M. and return at 5:00 P.M. Box lunches and drinks will be provided along with a field trip guide. Costs for the trip will be \$20.00 to help offset the expenses. Please call in your reservations to me at (601) 354-6328 or to Stan Theiling (601) 961-5519 by March the 13th. This will allow a little time to make arrangements for transportation, etc. Several of you have asked if it is possible to bring children and/or significant others. It will not be possible on this trip as it is a working mine. However, the Board of Directors is in favor of doing a field trip around the local area just for the kids and others. We will be working on this and let you know details in following newsletters. These type programs have been done by sister Societies and the response has been excellent.

Please make a note of the next regular meeting coming up in February. Meeting date is February 13th and the Board of Directors will meet the preceding week on the 6th.

One of the big ticket items for the Society is coming up. It is time to start nominations for officers for the next year. If it is at all possible I would like for each of you to find the time to either serve as an officer of the society or a "worker bee". It takes some time to get the business of the Society done, but it is a rewarding experience. We NEED YOU to be active in the Society. Either Andy Sylte or I will be calling around to recruit help, please volunteer in some way .

Seems as if this has been a tough year for our Society. Sadly, Mr. Chesley Pruett passed away last month, and his presence will be missed. I think anyone who has done exploration in Mississippi and Alabama, as well as other States, knows how active Mr Pruett was. Our thoughts go out to his family, and others t have been touched by the death of a loved one this year.

Not much else on the radar screen for this month. If you have any announcements please forward to me and I will include them in the newsletter. Until the next meeting.....keep on prospecting, and good luck!!

John Marble

MGS President 2000-2001

***MGS Professional Luncheon
February 13th — 11:30 AM
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September 5, 2000
 October 3, 2000
 November 7, 2000
 December 5, 2000
 January 16, 2001
 February 6, 2001
 March 6, 2001
 April 3, 2001
 May 1, 2001

PROFESSIONAL MEETINGS

September 21st — Fall BBQ – Ezat Heydari – Stringer Field
 October 10th — Stephen L. Chelette – Coherence Cubes
 November 14th — William Tedesco & R.P. Major -Tchula Lake Field
December 7th — CHRISTMAS PARTY
 January 9th — Ezat Heydari – Demopolis & Mooreville Form.
 February 13th — David Dockery – Geology of MS
 March 13th — TBA
 April 10th — TBA
 May 17th — Spring Fling

The Society's business, advertising, and program year runs consecutively from June through May. MGS publishes 9 bulletins per program year with the Membership Directory published each Spring as one of the monthly bulletins. Advertising sizes and rates are published in each bulletin. For questions or comments, see the MGS mast head above for your contacts.

Lost Worlds in Alabama Rocks

By: Jim Lacefield

In its long prehistory, Alabama has been just about everything; a forested wilderness full of strange animals, a warm, shallow sea, a fetid peat swamp, a salt desert, a meteor-blasted waste, a mountain range as high as the Himalayas. Time and again, the state has been submerged by rising seas and crossed by wandering rivers, leaving fossils that make Alabama a favorite destination for collectors. Jim Lacefield tells his story in plain words, with up-to-date discoveries illustrated in full color and made vivid by comparisons to living creatures and environments. But be warned: This book will make you want to see the rock and fossil evidence for yourself!

Andrew K. Rindsberg

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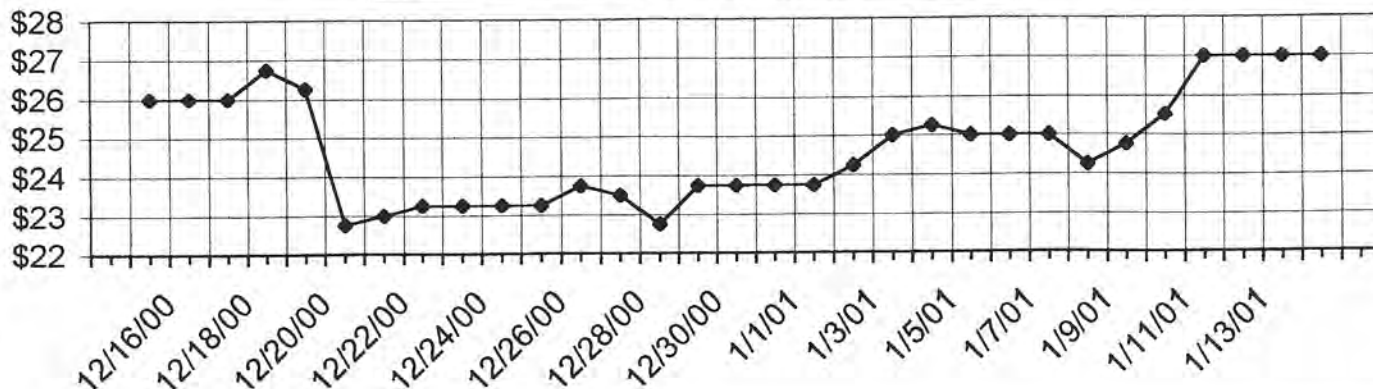
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Not Pictured: Jamie Harris and Jeremy Odom (Millsaps College)

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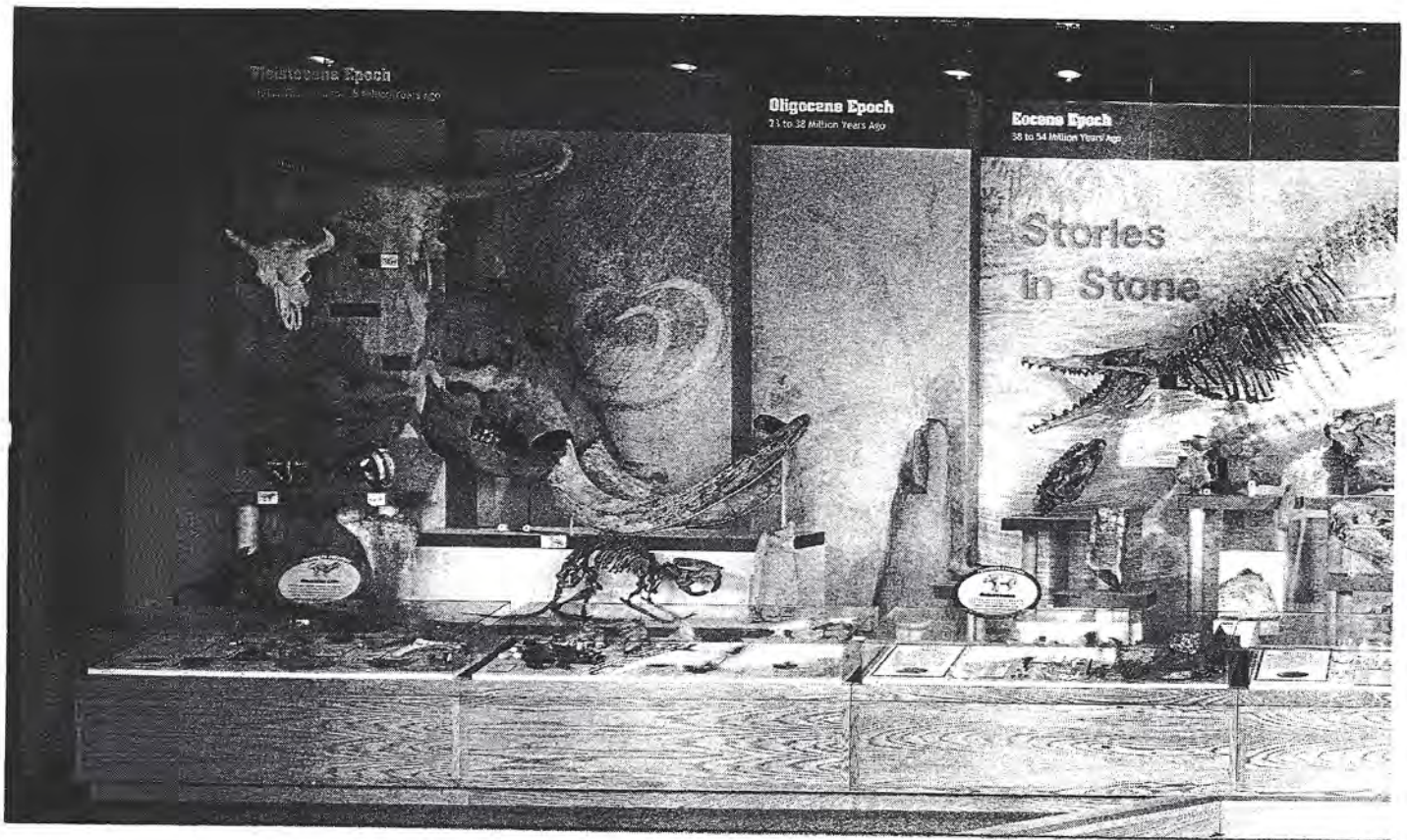
As announced in the April 2000 issue of *The AAPG Explorer* the AAPG Foundation Library has joined the Oklahoma Department of Libraries (ODL) system, making our collection available for online searching. By being online, the Library with over 4000 volumes of books, journals, and non-print material is now available for online title searching.

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THE STORIES IN STONE FOSSIL EXHIBIT

A Presentation of Mississippi's Geologic History at the Mississippi Museum of Natural Science

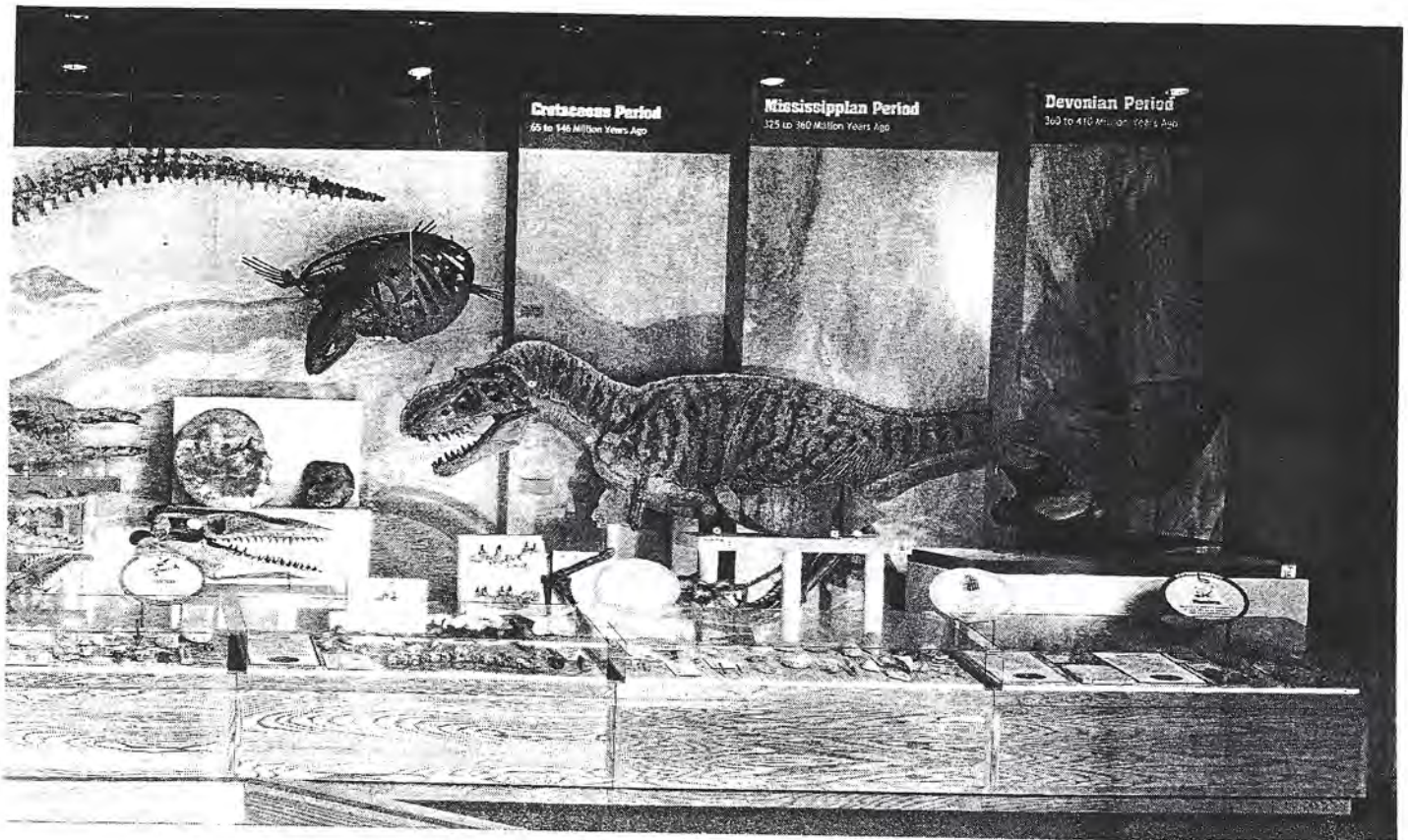
David T. Dockery III
Mississippi Office of Geology

Fossils from the collections of the Mississippi Office of Geology, along with those from other institutions and private collectors, are displayed in a new fossil exhibit entitled *Stories in Stone*. This exhibit occupies a prominent spot in the Mississippi Museum of Natural Science's new building at LeFleur's Bluff State Park in Jackson. The *Stories in Stone* exhibit uses fossils to tell the story of Mississippi's geologic past. The story's time-line, as shown above, runs from right to left, with the oldest fossils (from the Devonian Period, some 400 million years ago) on the right and the youngest fossils (from the Pleistocene Epoch, some 20 thousand years ago) on the left.

The exhibit contains 197 different fossil specimens. These are displayed in front of a stepped wall with subdued murals depicting scenes from Devonian, Mississippian, Cretaceous, Eocene, Oligocene and Pleistocene times. Larger specimens are mounted on display stands or, as is the case for the complete skeletons of an ancient Eocene whale and a Cretaceous sea turtle, are hung from the ceiling. Smaller fossils are arranged in display cases up front for easy viewing. These cases, from right to left, contain fossils of Devonian and Mississippian age in the first case, of Cretaceous age in the second and third, of Eocene age in the fourth, of Oligocene age in the fifth, and of Pleistocene age in the sixth and seventh.

Some highlights of the exhibit are the "feature creatures" selected for each time period and epoch. The Devonian Period is known as the "Age of Fishes." Its featured creature is the heavily-armored placoderm fish *Dunkleosteus terrelli*. Displayed is the cast of the skull and jaws of a specimen found in Cuyahoga County, Ohio. In the display case are Devonian trilobites from Tishomingo County, Mississippi.

The featured creature for the Mississippian Period is the scale tree *Lepidodendron*, a giant relative of the club moss. The trunk impressions of two specimens from Tishomingo County, Mississippi, are displayed along with two other specimens from Nova Scotia.



The featured creature of the Cretaceous Period is the mosasaur, a giant marine lizard. A cast of the skull and lower jaws of the mosasaur *Mosasaurus conodon* is displayed. While the original specimen of this cast is from Kansas, the tooth-studded jaws of a specimen from Oktibbeha County, Mississippi, are also displayed. Two other prominent casts on display are of the dinosaur *Albertosaurus libratus* from Alberta, Canada (*Albertosaurus* bones from Monroe County, Mississippi, are also displayed) and the turtle *Protostega gigas placenta*. This specimen is from Prentiss County, Mississippi, weighs perhaps 250 pounds, and is over 2.5 feet in diameter.

The featured creature of the Eocene Epoch is the ancient whale (and our State Fossil) *Zygorhiza kochii*. A complete skeleton of this whale, found in Yazoo County, Mississippi, hangs from the ceiling. Also displayed are the skull, lower jaw and vertebrae of an even larger whale, *Basilosaurus cetoides* from Hinds County, Mississippi, and the cast of a skull of the titanotherium *Notiotitanops mississippiensis*, a large land mammal, from Clarke County, Mississippi.

The featured creature of the Oligocene Epoch is the hippopotamus-like *Metamynodon planifrons*, a large land mammal found buried in sea-floor sediments near Edwards, Mississippi. Only the skull of this animal was found, and it likely fell off a carcass washed out to sea in a storm. Also found nearby and exhibited are the lower jaws of the rhinoceros *Subhyracodon occidentalis*. Plant fossils include the impression of a palm tree trunk in limestone from Rankin County and a large petrified palm trunk from Hinds County, Mississippi.

The featured creature of the Pleistocene Epoch is the American lion *Panthera atrox*, a name meaning "cruel lion." A cast of the skull and lower jaws of this lion is displayed; the original specimen is from Los Angeles County, California. However, the type specimen of this species is from Natchez, Mississippi. The fossil lion skull is dwarfed by the skull, lower jaws, tusks and leg bone of the mastodon *Mammuth americanum* (to the right) and the skulls of the American buffaloes *Bison latifrons* and *Bison antiquus* (above). Also exhibited is the cast of a complete skeleton of the giant beaver *Castoroides ohioensis* (from Randolph County, Indiana) beside a gnawed-looking section of petrified wood. Giant beaver teeth from Bolivar County, Mississippi, are displayed in Case 6.

The *Stories in Stone* exhibit was funded by a gift from Dudley J. Hughes, geologist and owner of Hughes South Corporation, Jackson, Mississippi. The panorama photograph of the exhibit shown above was taken by Gil Ford Photography on June 26, 2000.



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MGS 003SV\$15.00

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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.

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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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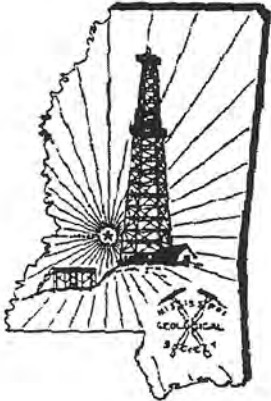
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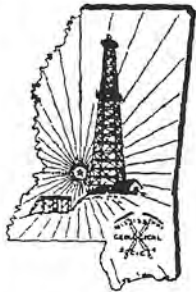
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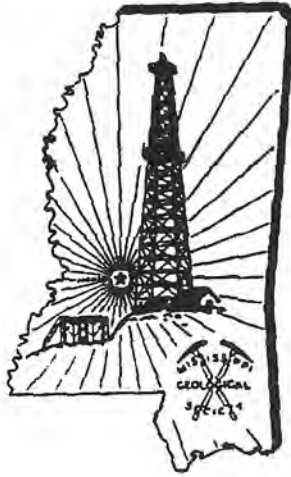
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MISSISSIPPI GEOLOGICAL SOCIETY

VOLUME 49

NUMBER 7

MARCH, 2001

PRESIDENT'S LETTER

by *John Marble*

Runnin' high and looking good. All the news is pretty much positive these days. I hope, as we all do, the current trend in exploration continues for a little while longer. It just can't help but be a good thing for the oil and gas business.

Not much in the way of big news this month, just a few reminders about the upcoming Society events this spring. First and foremost. The field trip to the Red Hills Lignite Mine is on for Saturday the 24th of March. Please get your spot reserved by the 13th of March (regular meeting day). We will meet on the campus of Millsaps College and leave at 8:00 a.m. sharp. Enter the campus from the North State Street entrance (Ford Ave.) and take the next right into the large parking lot. We will have vans there for transportation to the mine. We are scheduled to return by 5:00 p.m. that afternoon. Cost for the trip is \$20.00, which includes field trip guide, lunch, drinks and transportation. Please remember the cut-off date for reservations is the 13th of March at the regular meeting. Call me at (601) 354-6328 or Stan Thieling at (601) 961-5519 to reserve your spot.

The next scheduled P.T.T.C. seminar is coming up this month. If my facts are correct the meeting will be held March 7th, 2001 in the Capitol Club downtown. Meeting time is 8:30 a.m. to 3:30 p.m. Make your plans to attend now. The Society's Board of Directors meeting is March 6th, followed by the regular meeting on the 13th at 11:30 a.m. Steve Walkinshaw (Vision Exploration) will be the speaker. We have an extra bonus this month, as the Desk and Derrick Club will be joining us for this meeting. I would like to welcome Desk and Derrick, and I hope this will not be the last opportunity for us to have a joint get together.

The Spring Fling is not too far away. Tentative date for the shindig is the 17th of May at the Agriculture Museum in the Masonic Lodge (same place as last year). If any of you know of an important well or test hole that we might could do a workshop or core party on please let me or one of the officers know, and

we will try to make it happen. Kickoff time will be somewhere around 4:00 p.m., depending on the final plans.

The mid-year G.C.A.G.S. Board of Directors meeting will be held in Shreveport, Louisiana the 30th of March. If you have anything to place in our Society's report, please forward it to me for inclusion. The meeting will be held at Harrah's Shreveport Hotel on Clyde Fant Parkway. Time is from 9:30 a.m. to 4:00 p.m.

The Nominating Committee is in full swing in anticipation of selecting officers for the upcoming year. The Society needs volunteers not only for the officers slots, but also for worker bees. It does require some time to get all of the activities planned, scheduled and executed, but it is something that needs to be done. Don't wait. . . volunteer now! We need your help and expertise.

Not much else to report, although I feel as if I left something out. It never fails – just as soon as I close the file I think of something that should have been included. If you should have any announcements to get out to the membership, let me know and I will include same in the newsletter.

Until next time. . . circulating break, waiting on bottoms up.

John Marble
MGS President 2000-2001

MGS Professional Luncheon
March 13th – 11:30 AM
Capitol Club

Structural Diversity Atop Mississippi Salt Domes

Steve Walkinshaw
Vision Exploration

MISSISSIPPI GEOLOGICAL SOCIETY 2000 – 2001

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MGS Meeting Schedules, 2000-2001:

<u>OFFICERS' MEETINGS</u>	<u>PROFESSIONAL MEETINGS, etc.</u>
September 5	September 21 -- Fall BBQ -- Ezat Heydari -- Stringer Field
October 3	October 10 -- Stephen L. Chelette -- Coherence Cubes
November 7	November 14 -- William Tedesco & R. P. Major -- Tchula Lake Field
December 5	December 7 -- Christmas Party
January 16	January 9 -- Ezat Heydari -- Demopolis & Mooreville Formations
February 6	February 13 -- David Dockery -- Geology of Mississippi
March 6	March 13 -- Steve Walkinshaw -- Structural Diversity Atop MS Salt Domes
	March 24 -- Lignite Mine Field Trip
April 3	April 10 -- TBA
May 1	May 17 -- Spring Fling

The Society's business, advertising, and program year runs consecutively from June through May. MGS publishes 9 bulletins per program year with the Membership Directory published each Spring as one of the monthly bulletins. Advertising sizes and rates are published in each bulletin. For questions or comments, see the MGS mast head above for your contacts.

Structural Diversity Atop Mississippi Salt Domes

By Steve Walkinshaw

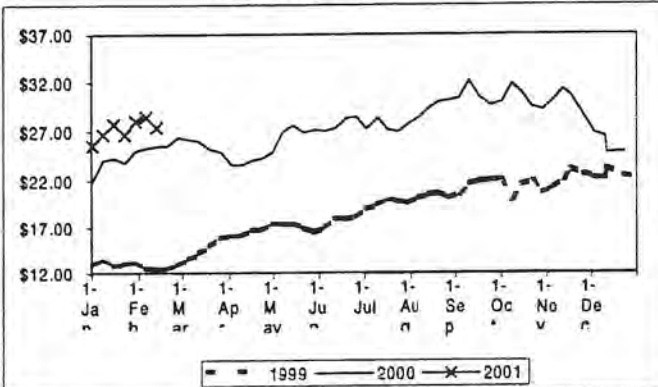
The exploration of salt domes within the Interior Salt Basin of Mississippi has focused primarily upon the truncation of predominantly Lower Cretaceous sediments against the flanks of each diapir and the commercial entrapment of hydrocarbons within those reservoirs. However, a remarkable and intriguing structural diversity is also associated with the crestal areas of these unique structures, with considerable impact upon local Tertiary sedimentation. This presentation shall address two of the more interesting geomorphic features found within the western portion of the Interior Salt Basin, atop their respective salt domes.

Speaker's Bio

Steve Walkinshaw is a Registered Petroleum Geologist with over 20 years of experience in the oil and gas industry. Steve graduated from Millsaps College in 1981 with a B.S. degree in Geology. He began his career with Hughes & Hughes (later Hughes Eastern Corporation), where he advanced to Senior Geologist. In 1989, Steve left Hughes Eastern to launch Cougar Exploration Company, an affiliate of Paramount Petroleum. He managed Cougar until Paramount (and its Cougar affiliate) was acquired by Nuevo Energy Company in 1992. Steve served as Exploration Geologist for Nuevo until November 1996, when he left Nuevo and became Exploration Manager for Hughes-Rawls International. In 1998 Steve was promoted to Executive Vice President of Hughes-Rawls LLC, and served in that capacity until the company reached its termination date last June.

Following the shutdown of Hughes-Rawls LLC, Steve successfully launched Vision Exploration LLC, an independent oil and gas company. In September of last year he completed the subscription of Vision's Three-year Exploration Program, which is currently underway. He is also co-owner of Turnagain LLC, a separate entity.

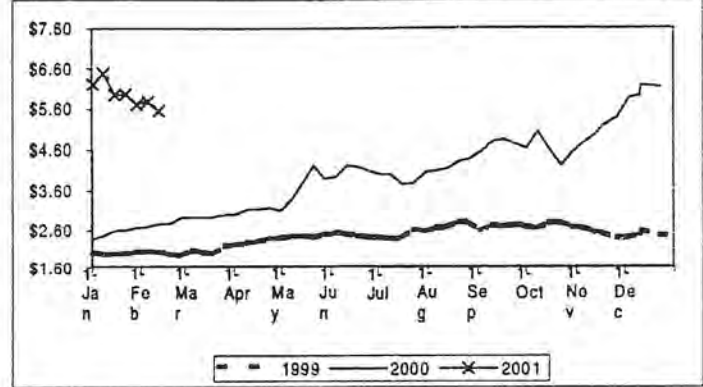
12-Month Oil Calendar Strip West Texas Intermediate



	This Week	Last Week	Beginning of Year	Last Year
Price	\$27.39	\$28.51	\$25.27	\$25.50
Percent Change	(Feb 20)	-3.9%	8.4%	7.4%

Source: Bloomberg

12-Month Gas Calendar Strip Henry Hub



	This Week	Last Week	Beginning of Year	Last Year
Price	\$5.55	\$5.78	\$5.77	\$2.75
Percent Change	(Feb 20)	-3.9%	-3.8%	101.7%

Source: Bloomberg

Real friends are those who, when you've made a fool of yourself, don't feel that you've done a permanent job.

Erwin T. Randall



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PETROLEUM TECHNOLOGY TRANSFER COUNCIL

and

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Announce a Technology Workshop

"Well Log Interpretation: Basic to Advanced"

Capital Club, Capital Towers, 19th Floor
125 South Congress St.

Wednesday, March 7, 2001
8:30 a.m.-3:30 p.m.

Jackson, MS 39201
Telephone (601) 969-7101

The Eastern Gulf Region of the Petroleum Technology Transfer Council and Mississippi State Board of Registered Professional Geologists invite oil and gas producing and related companies operating in Mississippi, Alabama and Florida to participate in a Technology Workshop entitled, "Well Log Interpretation: Basic to Advanced." The purpose of the workshop is to transfer recent research findings in well log interpretation and their application to reservoir characterization. This workshop is in cooperation with the National Petroleum Technology Office of the U.S. Department of Energy.

PROGRAM

The workshop will begin with an overview of basic well logs and their interpretation, including gamma ray, SP, neutron, density, PEF and resistivity. The calculation of effective porosity and water saturations will be demonstrated, and some "quick-look" interpretation guidelines will be discussed. Advanced interpretation techniques will be introduced with the presentation of eight mineral models, shale characterization, and water-cut and permeability determinations with magnetic resonance. An evaluation of dipmeter and formation imaging interpretation of channels, sand bars, faults and other structural and stratigraphic depositional environments will be included. The workshop will conclude with a demonstration on how data can be used to characterize reservoirs and to pick offset well locations.

Todd Sutton, Jonathan Collier and Mark Larsen of Schlumberger will conduct the workshop.

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 February 28, 2001. Please contact Ernest A. Mancini:

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

Telephone: (205) 348-4319
Fax: (205) 348-0818
E-mail: emancini@wgs.geo.ua.edu

Register on-line at http://egrpttc.geo.ua.edu

Workshop Registration Form—March 7, 2001

(Please type or print requested information and provide complete mailing address for our records.)

Name (Last) (First) (Middle)
Affiliation
Mailing Address
City State Zip Code
Telephone Fax E-mail
Preferred Name on Badge

There is a \$25.00 registration fee to attend the workshop (payable by check only the day of the meeting). Please make your check payable to: Petroleum Technology Transfer Council. We look forward to your participation.

MAPL SPRING GOLF TOURNAMENT

Lake Caroline Golf Club

Thursday, April 25, 2001

Registration & Lunch 11:00 a.m. – Shotgun Start 12:00 Noon

Cost: \$65.00 – Includes green fee, cart, lunch & drink tickets

Open to MAPL, Geological Society, Geophysical Society, SPE, and Oil & Gas Lawyers Assn.

The tournament will consist of a four-man scramble format, preferably "A", "B", "C", "D" team configurations. No team may have more than one (1) player with a handicap of less than 7, and the total team handicap cannot be less than a total of 40. Each player may purchase 2 mulligans, at a cost of \$5.00 per mulligan. You may make your own team, or we will assign you to a team.

MAPL members who wish to play for the Annual Landman's Trophy may do so by playing their own ball.

**ALL ENTRIES MUST BE RECEIVED BY MARCH 28, 2001
PLAY WILL BE LIMITED TO THE FIRST 144 PLAYERS**

ENTRY FORM – MAPL SPRING GOLF

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More – A Long Time Ago

By Bill Moore

Upon returning from Army duty in the mid-50's, I found that the Geological Society was still having an annual field trip. They had made one change that worked to a great advantage, and that was traveling by chartered bus. This lessened the danger of up to 50 automobiles pulling off onto the shoulder of the road. In 1959 the Society decided to return its field trip to the Cretaceous deposits in east central Mississippi and west central Alabama. A three-day trip was planned, and Bob Johnson of Magnolia and I were told to organize the trip, including running the road log and printing a guidebook. We were able to get good leaders from both Mississippi and Alabama to be the guides. I enlisted Ernest Boswell to help me to run the road log.

Bob and I started planning for the trip some four months before it was to take place. The president of the Society that year was a nervous sort and called me almost every other day to ask if I had chartered the busses. I tried to explain that we had several months to do that, but he continued to call frequently. I went and chartered the busses two months ahead and called him on the phone that I had the busses locked up. He then asked, "What kind of busses did you get?" "Great big busses," I answered. He didn't call again.

The day finally arrived, and we started out on the four-day trip. We decided to go through the country instead of Highway 80, just to see some different outcrops from the ones along 80. We, of course, stopped at the Red Hot Truck Stop in Meridian to look for fossils in the Bashi Marl, even though it was not on the scheduled part of the trip. The road log started at Meridian and went north on Highway 45. As we passed through Kemper County, we saw the Mississippi Geological Society drilling rig along the side of the road. We stopped and went over to talk to Professor Richard J. Hughes. Dr. Hughes was conducting a survey of the geology and mineral resources of Kemper County. While we were talking to him, he predicted where he would reach the top of a certain formation. When the bit reached that depth, the sample did not show the formation top to be where Hughes had predicted. Being an overly sensitive fellow about his knowledge of geology, he took off his hat, threw it on the ground, stomped on it and said, "Damn, damn and double damn!" When calm returned to Hughes, he decided he would call it a day with the rig. He told his driller to clean up the area while he went with us to look at the contact between the Cretaceous and the Paleocene, some 20 miles away. As we were riding in my car, Boswell and Hughes began to discuss stratigraphy. Evidently they did not agree on several particulars of the Matthew's Landing Marl. The disagreement got louder and louder, until Hughes finally shouted, "Stop the car and let me out!" I said, "Richard, we are 15 miles from your truck and drill rig. I will be glad to take you back." "Just let me out," he continued. So we did. I saw him at a meeting several months later, and he didn't seem to hold it against me. He greeted me as a long lost friend.

The day went fine, and we reached Tupelo around 5:30 or 6:00, and all of us stayed in the same motel. Although there were several bumps in the night and other strange noises, everyone showed up for the next day's trip into Alabama. I was seated next to a Gulf geologist who began to read to me from the trip guidebook. I told him that I had assembled the guidebook and did not require him to read it to me. He stopped reading for about 5 minutes, then started again, but fortunately drifted off to sleep, and I had about 30 minutes' rest until we came to another stop and he started again. The day was pretty warm, but we had air-conditioned busses, which increased the time spent on the busses and somewhat shortened the time spent on the outcrop. I noticed that there was still the group who, upon stopping, still raced from the bus and clamored to the top of the outcrop. Also, at a stop at Plymouth Bluff, near Columbus, a Millsaps student walked out on a ledge hanging over the Tombigbee River. Dr. Priddy, Millsaps' Geology Professor, had accompanied some of his students on this trip. He called to the fellow, "Eskridge, don't walk out on that ledge." He had scarcely gotten the words out of his mouth when Eskridge and a portion of the ledge disappeared into the river. We fished him out, and he was OK, but all wet. He didn't smell very good and was banished to a solitary seat at the back of the bus.

We spent this night in Tuscaloosa. Everyone survived the icebreaker party we had. At breakfast everyone was discussing what he had seen, and as usual everyone had a different opinion. The next day was guided by staff members from the Alabama Geological Survey and USGS personnel. A high point of the day

was to be a catfish fry at noon on the banks of the Alabama River, where you could eat and look at a large outcrop of the chalk. To reach this outcrop, we had to park the busses and walk about a quarter mile across a grassy field, then down the bank to the water's edge for catfish. A Shell geologist had been reading his guidebook aloud and adding commentary to everything that our guides said. He had never seen these rocks before, but he lectured anyway. Nature silenced him, for, as he walked across the field, he jumped a covey of quail. As they exploded out of the grass, the fellow rose some four feet off the ground and began running while he was still in the air. For the rest of the trip, when he would start to expound, someone would make a whirring noise, causing him to become quiet.

The third night was spent in Montgomery, Alabama, in a large hotel. A number of us were in the lounge to a late hour listening to a very good singer who was performing there. I don't know how long we would have stayed except for the fact that around 12:30 or 1:00 Mort Phillips began to shout, "Sing 'When Irish Eyes Are Smiling'." We concluded that it was now time to go to bed. We decided that when a Jewish geologist requested an Irish song it must be late. The next morning we all filed to the busses, but by then discipline had become lax and no one bothered to count as we loaded. We drove about 15 miles to the first stop and had finished the lecture there when a Yellow Cab came screaming up. The driver jumped out to let two humble geologists slide out onto the ground. We carried them to the bus, and one of them muttered, "Did we miss anything?" Our bus driver said, "It doesn't look like you missed very much."

Again, we were delivered to the fairgrounds, stood around for a while, and headed home full of knowledge. The field trips continued for several more years before they faded into the geological past. I'm not sure how much was added to our knowledge of geology, but it proved again that geologists are different.

Red Hills Lignite Mine

Saturday, March 24, 2001

8:00 a.m. -- 5:00 p.m.

\$20 -- includes box lunch, drinks & field trip guide

Trip begins at Millsaps College

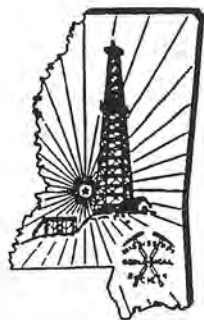
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Happy St. Patrick's Day!!!





Publications of the MISSISSIPPI GEOLOGICAL SOCIETY

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

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

Composite Mesozoic Log of South Mississippi and South Alabama.

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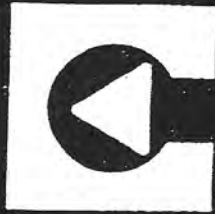
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J. R. R. Tolkien

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Albert Einstein

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from some of my most valuable mistakes.*

Gene Fowler

*It's better to know nothing than to know what
ain't so.*

Josh Billings

*Men stumble over the truth from time to time, but
most pick themselves up and hurry off as if
nothing happened.*

Winston Churchill

*I'd rather be a failure at something I love than a
success at something I hate.*

George Burns

*The only way to make sense out of change is to
plunge into it, move with it, and join the dance.*

Alan Watts

*We are continually faced with a series of great
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problems.*

John W. Gardner

*Experience is not what happens to a man; it is
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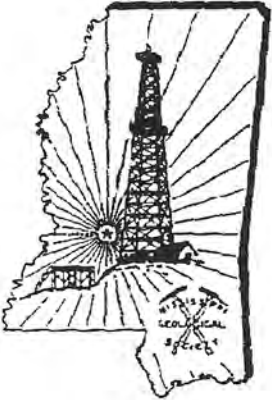
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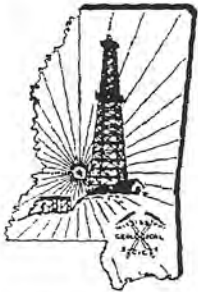
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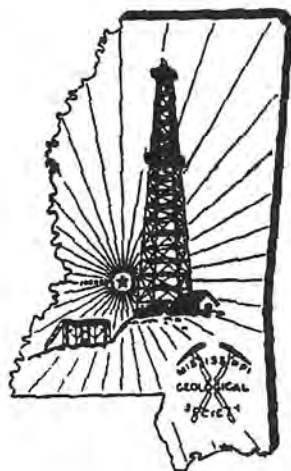
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MISSISSIPPI GEOLOGICAL SOCIETY

VOLUME 49

NUMBER 8

APRIL, 2001

PRESIDENT'S LETTER

by *John Marble*

What a great day in the field!! For those of you who were able to go the Red Hills Lignite Mine this past Saturday, you got to observe some spectacular Wilcox geology. The sheer size of the "outcrop" is something to see. The box cut is approximately 3000' long, 1000' wide, and the high wall exposes approximately 140' of the lower Wilcox Group (Nanafala Formation; Grampian Hills Member). It was almost surreal to see the distributary systems complete with the overbank deposits, etc. It was easy to go back to the beginning of Wilcox time and imagine what the depositional environments would have been, and how our interpretation of these environments leads to success or failure in the grand experiment called exploration. Many thanks go out to Stan Theiling for making the field trip happen. Stan was a "one man" field trip committee, and did an outstanding job from the guidebook to lunch. As a parting shot, I must say this plate of crow taste really good!! I somehow replaced the correct street name leading into the Millsaps campus with one I apparently made up!! I am sorry for the confusion on the meeting place. The feathers are my favorite!!

Society activities will continue into the spring and early summer. I would like to remind you of events on our calendar coming up in the near future. Our next regular meeting is April 10th at the Capital Club. Larry Baria has arranged to have Mr. Bob Sabate from Metairie to speak to us. We will gather at the Club at 11:30, and the talk will begin shortly after noon.

The Spring Fling will be held May 17th at the Agriculture Museum. We will be in the Masonic Lodge (same place as last year) for food, fellowship, and geology. Dr. Ezat Heydari with the Office of Geology will have cores and/or samples from two wells here in Mississippi for our viewing enjoyment and comments. Activities will begin at 4:30 P.M. followed with catfish and such. Come out and enjoy the core party, food, and geologic opinions.

Bring your significant other and have a good time. We will elect officers for the upcoming year at this meeting. Be there to defend your honor!

A special treat is on tap for the 12th of June. We will meet at 5:30 P.M. at the Natural Science Museum for an "after hours" guided tour of these facilities. Mr. Dudley Hughes has arranged for us to use this time at the Museum and this is something you don't want to miss! Dr. David Dockery with the Office of Geology will provide details of the fossil exhibit, and the importance of these finds. We plan on having refreshments during the tour, so a " head count " is important. Call or e-mail me and save a place for you and your squeeze! My phone number is (601) 354-6328; e-mail address is: John_Marble@deq.state.ms.us.

Not much else to add at this point. I'll forward any important information from the mid-year meeting of the GCAGS Board of Directors. This meeting is being held in Shreveport at the end of March. I would like to remind the membership of the GCAGS annual meeting being held in Shreveport later this year. The meeting is scheduled for the 17th-19th of October. Watch the newsletter for more information as the meeting date approaches. See YOU at the regular meeting!!

John Marble

MGS President 2000-2001

MGS Professional Luncheon ***April 10th — 11:30 AM*** ***Capitol Club***

Paleostructure Analysis

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MGS Meeting Schedules :

OFFICERS MEETINGS

September 5, 2000
 October 3, 2000
 November 7, 2000
 December 5, 2000
 January 16, 2001
 February 6, 2001
 March 6, 2001
 April 3, 2001
 May 1, 2001

PROFESSIONAL MEETINGS

September 21st — Fall BBQ – Ezat Heydari – Stringer Field
 October 10th — Stephen L. Chelette – Coherence Cubes
 November 14th — William Tedesco & R.P. Major - Tchula Lake Field
December 7th — CHRISTMAS PARTY
 January 9th — Ezat Heydari – Demopolis & Mooreville Form.
 February 13th — David Dockery – Geology of MS
 March 13th — Steve Walkinshaw – MS Salt Domes
 April 10th — Robert Sabate – Paleostucture Analysis
May 17th — SPRING FLING

The Society's business, advertising, and program year runs consecutively from June through May. MGS publishes 9 bulletins per program year with the Membership Directory published each Spring as one of the monthly bulletins. Advertising sizes and rates are published in each bulletin. For questions or comments, see the MGS mast head above for your contacts.

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Andrew K. Rindsberg

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MGS ADVERTISING NOTICE !

It is time to place or renew your advertisement in the MGS Bulletin. Last year the MGS Board of Directors voted to change the advertising year (the calendar year) to coincide with the Society's business year which runs from June through May. This year's first issue of the Bulletin will be the September issue. Please place or renew your ad now. The specific ad sizes, prices, and options are outlined below.

PLEASE SUBMIT YOUR AD (if new or changed from last year) ALONG WITH THIS SHEET AND PAYMENT TO:

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** camera ready copy required for these sizes (new or changed ad only). Please contact Editor Aaron Lasker (601) 939-3200 or Steve Jennings (601) 961-5205 for details. Please note that the Bulletin is not published in the summer months.

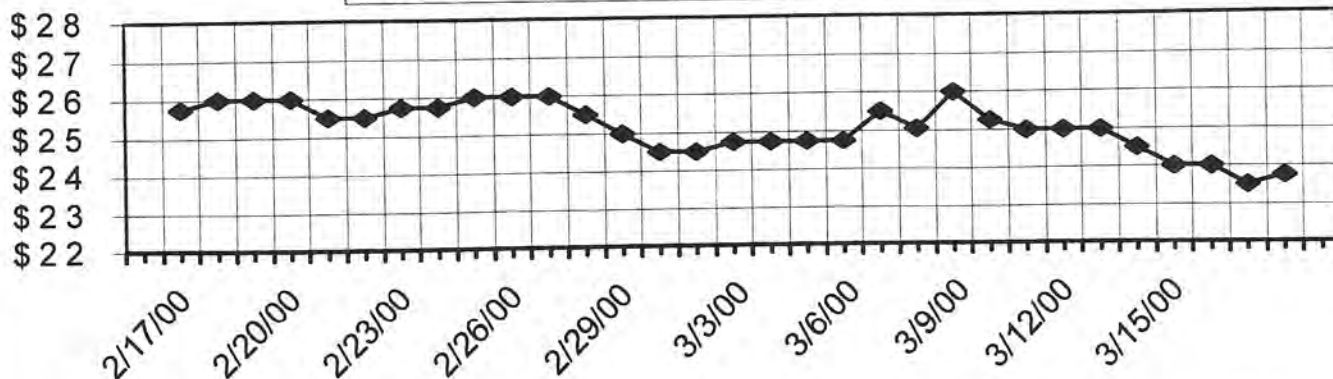
Monthly Oil Price Chart

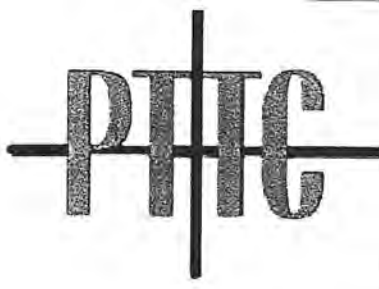
George Vockroth has supplied the following daily oil price data to illustrate the degree of daily price fluctuations

Note: East Mississippi is \$4.00 below WTI; West Mississippi is \$.50 below WTI

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**EASTERN GULF REGION
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Announces a Technology Workshop

"Natural Fracture and Reservoir Quality Prediction and Diagnosis"

Capital Club, Capital Towers, 19th
Floor
125 South Congress St.

Tuesday, April 24, 2001

Jackson, MS 39201

8:30 a.m.–4:00 p.m.

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, *"Natural Fracture and Reservoir Quality Prediction and Diagnosis."* The purpose of the workshop is to transfer recent findings in natural fracture characterization and its application to optimize oil and gas recovery. This workshop is in cooperation with the National Petroleum Technology Office of the U.S. Department of Energy.

PROGRAM

The workshop will examine new directions in natural fracture characterization in oil and gas reservoirs that build on the heightened application of the close relationship between fracturing and rock and fluid properties. Oil and gas occurring in fractured rocks is a growing target of companies and finding new methods to successfully predict, characterize and simulate reservoir-scale natural fractures is an increasing challenge facing the petroleum industry. Methods used to diagnose natural fractures that use microfracture and diagenesis data as surrogates for large fractures that are difficult to sample will be discussed. Applications, such as using core-based fracture characterization methods to calibrate seismic fracture detection, will be explored. Sampling procedures to enhance fracture characterization and scaling strategies to improve predictions of macrofracture attributes will be discussed.

Dr. Steve Laubach of the Bureau of Economic Geology at the University of Texas at Austin will be conducting the workshop.

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 April 17, 2001. Please contact Ernest A. Mancini:

Department of Geological Sciences
Telephone: (205) 348-4319

University of Alabama, Box 870338
Fax: (205) 348-0818

Tuscaloosa, AL 35487-0338
E-mail: emancini@wgs.geo.ua.edu

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Workshop Registration Form—April 24, 2001

(Please type or print requested information and provide complete mailing address for our records.)

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Preferred Name on Badge		

There is a \$25.00 registration fee to attend the workshop (payable by check only the day of the meeting). Please make your check payable to: Petroleum Technology Transfer Council. We look forward to your participation.

NOTICE OF CHANGE !



Due to illness, Robert Sabate will be unable to speak at our April 10th meeting. Instead, our speaker will be:

Gordon Van Swearingen

And the topic is:

**Analysis of Bright Spots
and Other Hydrocarbon Indicators**

Gordon Van Swearingen is a geophysicist with eSeis, Inc., with many years experience in AVO (analysis of bright spots), absorption and other direct hydrocarbon indicators of oil and gas deposits.

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Jackson Geophysical Society Golf Tournament 2001



Patrick Farms Golf Course
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8:30 a.m. Shotgun Start

Four Man Scramble

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April 12, 2001 with setup on April 11*

The East Texas Geological Society would like to invite you to attend this year's Tech Expo and Prospect Fair. Last year's was an outstanding success with over 35 vendors and prospect showers participating. We had over 350 people attend, coming from all over the oil industry. Each prospect that was shown last year received a number of inquires. With the marketplace changing as it is, the old links between buyers and sellers have been broken. Come to the Expo to meet the new buyers. If you have a product to sell, this is the place to be. You will have an opportunity to meet potential buyers that don't attend the conventions and NAPE. Best of all, come to greet old friends, make new friends, and have fun. Lunch is included in the price of admission which is \$20 for advance registration or \$25 at the door.

Booths for the one-day event on April 12 are priced at \$200 for the first booth and \$150 for each subsequent booth. This includes the following:

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To register, please fill out the enclosed registration form and return to:

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Or contact Johnnie Wanger at 903-535-9887 or at rockcoach@juno.com
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We look forward to seeing you there!

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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.

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Supplement 7 for Volume II, 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 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.

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FIELD TRIP GUIDEBOOKS

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

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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.

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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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it, there will be a fish.

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You're only young once, but you can be
immature forever.

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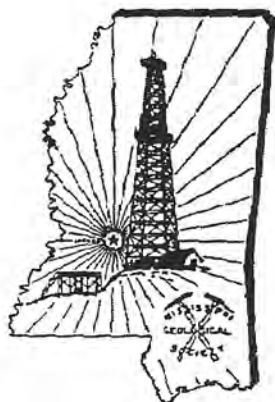
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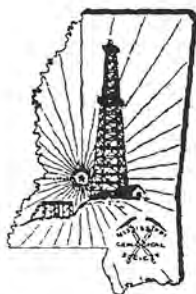
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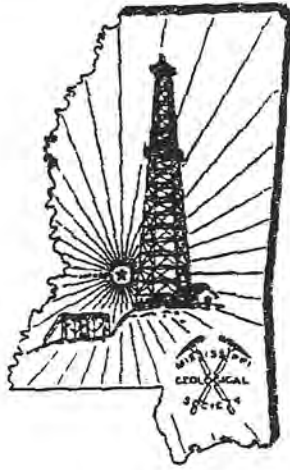
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MISSISSIPPI GEOLOGICAL SOCIETY

VOLUME 49

NUMBER 9

MAY, 2001

PRESIDENT'S LETTER

by *John Marble*

I wish I had some really profound ideas or observations I could leave you with in this last President's letter. I can only tell you it has been a very busy year for our Society. The volunteer effort of our Board of Directors, committees, and individuals all combined to make this a very successful year. Without the suggestions and help of the Board and the membership, we would have been hard-pressed to make this year a winner.

Special thanks are due to a few members who went above and beyond the call of duty this year. All of the Board of Directors, thanks for your support and help. Stan Theiling for his work on the field trip to the Red Hills Lignite Mine. Jerry Zoble for his work on the Larry Boland Scholarship Fund. Jo Everett and Lindsey Stewart for their work on the finances and newsletters. Aaron Lasker for the editing of the newsletter. Steve Jennings for his work on the advertising. Steve Walkinshaw for his work and suggestions on the Societies webpage. By the way, if you haven't seen the webpage go to www.missgeo.com and have a look. Remember, it is a work in progress and we will be adding to it throughout the coming year. Last, but certainly not least, our sponsors. Without your support of the Society, we would be hard pressed to make a go of this each year.

I would remind everyone of some upcoming events this year. First, the Spring Fling will be at the Ag Museum on May 17th. Festivities begin at 4:30 with a core party followed by our annual catfish fry. We will meet in the Masonic Lodge (same place as last year) and swap war stories and all the geology we can stand! Bring yourself and your squeeze and have a good time. We will be electing next years Board so be there to defend yourself!

We have an extra meeting this year at the Natural Science Museum on the 12th of June. We will meet at the Museum at 5:30 P.M. for a private tour of the museum. Dr. David Dockery of

the Office of Geology will provide details on the extensive fossil display and their importance in Mississippi geology. We plan on having refreshments during the tour so a "head count" is VERY important. Please call me or e-mail me and save a place for you and yours. My phone number is (601) 354-6328; e-mail address is John_Marble@deq.state.ms.us.

I don't have any other earth shaking news to relay to you so I guess I will close for now. I am grateful to have had the honor and the opportunity to serve as President of the Society. My personal thanks to all of you who have helped, and given me suggestions.

Thanks again for the privilege of serving as MGS President for the last year.

John Marble

MGS President 2000-2001

*"Don't let it end like this. Tell them
I said something."*

Last words of Pancho Villa (1923)

SPRING FLING & CORE PARTY

Masonic Lodge at the MS Ag Museum

May 17th 4:30 PM

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June 12th 5:30 PM

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MGS Meeting Schedules :

OFFICERS MEETINGS

September 5, 2000
 October 3, 2000
 November 7, 2000
 December 5, 2000
 January 16, 2001
 February 6, 2001
 March 6, 2001
 April 3, 2001
 May 1, 2001

PROFESSIONAL MEETINGS

September 21st — Fall BBQ – Ezat Heydari – Stringer Field
 October 10th — Stephen L. Chelette – Coherence Cubes
 November 14th — William Tedesco & R.P. Major - Tchula Lake Field
December 7th — CHRISTMAS PARTY
 January 9th — Ezat Heydari – Demopolis & Mooreville Form.
 February 13th — David Dockery – Geology of MS
 March 13th — Steve Walkinshaw – MS Salt Domes
 April 10th — Robert Sabate – Paleostucture Analysis
May 17th — SPRING FLING
June 12th — Natural Science Museum – Hosted by Mr. Dudley Hughes

The Society's business, advertising, and program year runs consecutively from June through May. MGS publishes 9 bulletins per program year with the Membership Directory published each Spring as one of the monthly bulletins. Advertising sizes and rates are published in each bulletin. For questions or comments, see the MGS mast head above for your contacts.

Lost Worlds in Alabama Rocks

By: Jim Lacefield

In its long prehistory, Alabama has been just about everything; a forested wilderness full of strange animals, a warm, shallow sea, a fetid peat swamp, a salt desert, a meteor-blasted waste, a mountain range as high as the Himalayas. Time and again, the state has been submerged by rising seas and crossed by wandering rivers, leaving fossils that make Alabama a favorite destination for collectors. Jim Lacefield tells his story in plain words, with up-to-date discoveries illustrated in full color and made vivid by comparisons to living creatures and environments. But be warned: This book will make you want to see the rock and fossil evidence for yourself!

Andrew K. Rindsberg

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MGS ADVERTISING NOTICE !

It is time to place or renew your advertisement in the MGS Bulletin. Last year the MGS Board of Directors voted to change the advertising year (the calendar year) to coincide with the Society's business year which runs from June through May. This year's first issue of the Bulletin will be the September issue. Please place or renew your ad now. The specific ad sizes, prices, and options are outlined below.

PLEASE SUBMIT YOUR AD (if new or changed from last year) ALONG WITH THIS SHEET AND PAYMENT TO:

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P.O. BOX 422
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Attention: Steve Jennings

Thank you for your cooperation and support for the Society. Your prompt reply will be appreciated.

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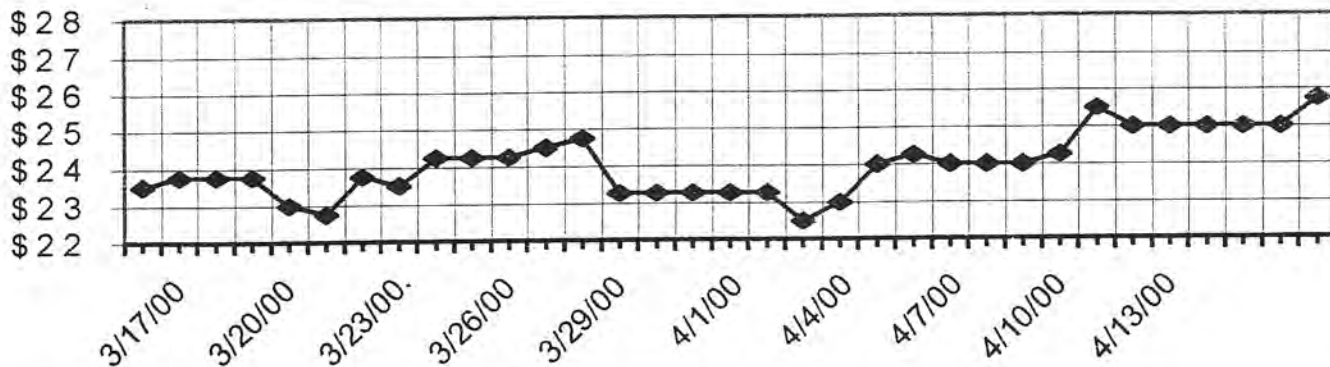
** camera ready copy required for these sizes (new or changed ad only). Please contact Editor Aaron Lasker (601) 939-3200 or Steve Jennings (601) 961-5205 for details. Please note that the Bulletin is not published in the summer months.

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 \$6.00 below MERC; West Mississippi is \$1.25 below WTI

West Texas Intermediate Crude

West Texas Intermediate Crude is \$3.00 less than MERC



May 17th
4:30 P.M.

Masonic Lodge at the
Mississippi Ag Museum



It's time for the Annual MGS SPRING FLING & CORE PARTY



Bring yourself and your significant other to enjoy catfish prepared by the Mississippi Catfish Cooking Team, beverages, and all the news from the Mississippi Oil & Gas Fields.

We will also be electing the Board of Directors for next year.

JOIN US

TUESDAY, JUNE 12th

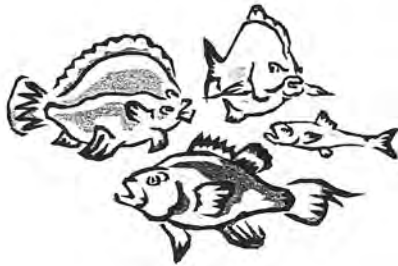
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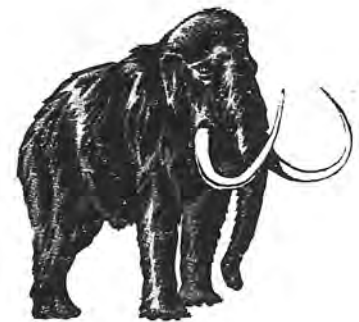
Thanks to Mr. Dudley Hughes



Private Tour of Museum

Discussion of Fossil Exhibit

By Dr. David Dockery



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Announce a Technology Workshop

"Essentials of Subsurface Mapping"

Capital Club, Capital Towers, 19th
Floor
125 South Congress St.

Wednesday, May 23, 2001

Jackson, MS 39201

8:30 a.m.–3:30 p.m.

Telephone (601) 969-7101

The Eastern Gulf Region of the Petroleum Technology Transfer Council and Mississippi State Board of Registered Professional Geologists invite oil and gas producing and related companies operating in Mississippi, Alabama and Florida to participate in a Technology Workshop entitled, *"Essentials of Subsurface Mapping"*. The purpose of the workshop is to transfer recent research findings in subsurface mapping and its application to oil and gas exploration and production. This workshop is in cooperation with the National Petroleum Technology Office of the U.S. Department of Energy.

PROGRAM

This workshop will review such topics encountered in subsurface mapping as faults, fault cut vs. throw, unconformities, repeated sections in deviated wells, the conversion of measured thickness to true stratigraphic thickness in deviated wells and dipping beds, and the integration of fault plane structure with formation structure. Particular emphasis will be placed on reverse estimation and isopaching, especially the construction of the net oil and net gas isopachs used in volumetric calculations.

Duncan Goldthwaite and Robert Branson, Atwater Consultants, Ltd., New Orleans, will conduct the workshop.

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 14, 2001. Please contact Ernest A. Mancini:

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

Telephone: (205) 348-4319
Fax: (205) 348-0818
E-mail: emancini@wgs.geo.ua.edu

Register on-line at: <http://egrpttc.geo.ua.edu>

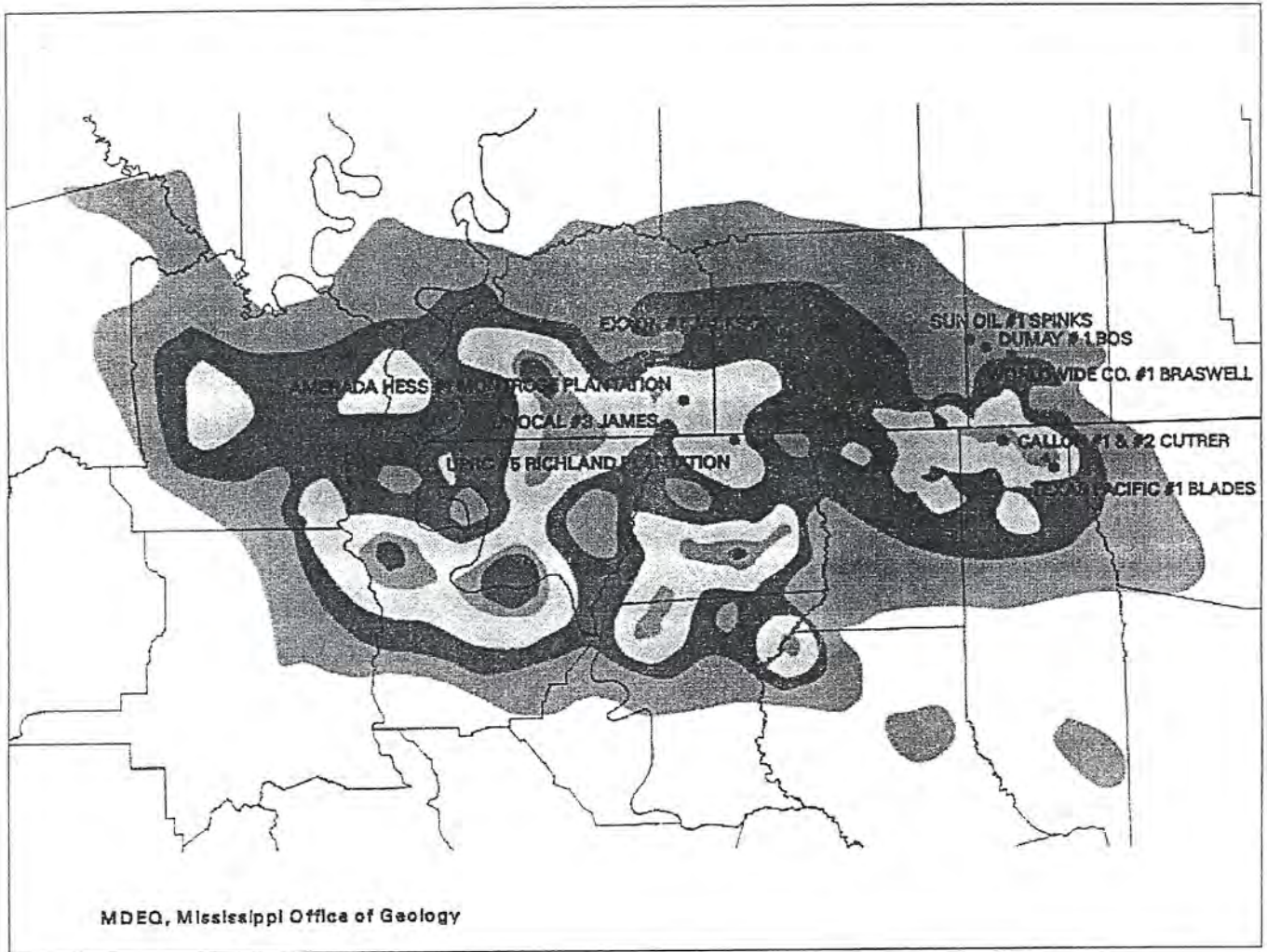
Workshop Registration Form—May 23, 2001

(Please type or print requested information and provide complete mailing address for our records.)

Name		
(Last)	(First)	(Middle)
Company name		
Company address		
City	State	Zip Code
Telephone	Fax	E-mail
Preferred name on badge		

There is a \$25.00 registration fee to attend the workshop (payable by check only the day of the meeting). Please make your check payable to: Petroleum Technology Transfer Council. We look forward to your participation.

POTENTIAL RESERVES IN PLACE TUSCALOOSA MARINE SHALE



Modified from LSU Basin Research Institute (1997).

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LA	2	116,324	182	215,199,235		
LA	3	583,963	912	1,080,332,079		
LA	4	901,079	1,408	1,666,995,666		
LA	5	1,066,329	1,666	1,972,708,272		
MS	1	9,799	15	18,127,405	79,109,684	79,109,684
MS	2	31,307	49	57,918,147	273,117,382	352,227,066
MS	3	175,931	275	325,473,235	1,405,805,314	1,758,032,380
MS	4	391,279	611	723,865,616	2,390,861,282	4,148,893,662
MS	5	493,036	770	912,116,409	2,884,824,681	7,033,718,343
		3,802,010	5,941	7,033,718,343	7,033,718,343	

"The risk in this play is not in finding oil -- the risk is in producing commercial quantities by applying the latest drilling and completion technologies." Jack Moody, Oil & Gas Journal, Oct. 11, 1999



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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, 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

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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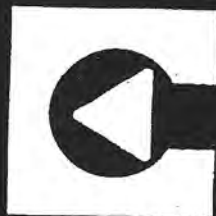


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*"Everything that can be invented has been
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1899 - Charles H. Duell, US Patent Commissioner

"Who the hell wants to hear actors talk?"

1927 - H. M. Warner, founder of Warner Bros.

*"I think there is a world market for maybe
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1943 - Thomas Watson, Chairman of IBM

*"The concept is interesting and well-formed, but
in order to earn better than a 'C', the idea
must be feasible."*

A Yale Univ. management professor in response
to a paper by student Fred Smith (founder of
Federal Express Corp.) proposing reliable overnight
delivery service.

*"We don't like their sound, and guitar music
is on the way out."*

1962 - Decca Recording Co., rejecting the Beatles

*"There is no reason anyone would want a
computer in their home."*

1977 - Ken Olson, President & founder of
Digital Equipment Corp.

"640K ought to be enough for anybody."

1981 - Bill Gates

*"We are not retreating - we are advancing in
another direction."*

General Douglas MacArthur

Edward Jones

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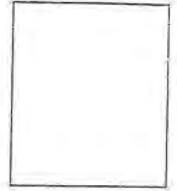
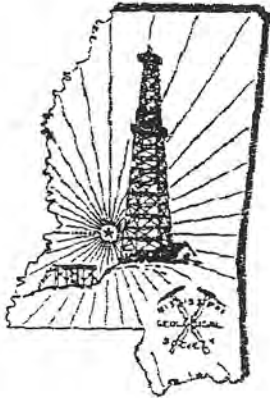
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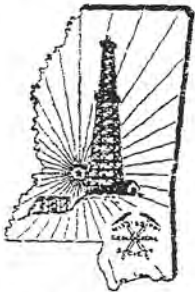
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