



MISSISSIPPI GEOLOGICAL SOCIETY

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Sept. 1984



1984-1985



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Cover: Photo: Don Hudson, ebb-tidal delta, Miles Hayes AAPG S. Carolina field trip, infra-red film. Note partially-drowned lighthouse center-right.



PRESIDENT'S MESSAGE . . .

It does not seem possible that summer is almost over. School is about to start up again and the football spirit is regaining momentum; and not to be outdone, our Mississippi Geological Society activities will start up again. September will get started off with a BANG! T.C. Rader has everything rolling for the Fall Get-Together and Barbeque, scheduled for Friday night, September 7, 1984, activities commencing at 4:30 p.m., with food to be served at 6:00 p.m. Our regularly scheduled Speakers' Luncheons start the following Tuesday, September 11, 1984. Mr. Neil Barnes, Program Chairman, has arranged for Dr. Ernest Mancini to present his paper, "Hydrocarbon Potential of the Upper Jurassic Norphlet Formation of Alabama". I must also mention at this time that your Executive Committee has seen the bottom line and has voted unanimously to increase the fee for the Luncheon Meeting with Speaker to \$10.00. This will cover most of the costs incurred both for food and speaker expenses.

The Lawrence F. Boland Scholarship Fund Committee is busy screening applicants for the Annual Scholarship Award for the academic year 1984-85. Mr. Jerry Zoble, Administrator of the Scholarship Fund, and the committee are to be commended. \$37,500.00 has been contributed toward the goal of \$50,000.00. This will be the third year scholarships have been awarded through the Fund. There were two awards for the academic year 1982-83 for \$600.00 each, and four awards for the academic year 1983-84 for \$700.00 each. Scholarships are awarded only from the interest earned on the principal sum. I strongly urge all of our members and friends of the Society to consider contributions for the scholarship fund as you formulate your financial planning from year to year. *Remember* contributions are tax deductible.

Mark your calendar for the GCAGS Meeting, October 24-26, in Shreveport, Louisiana.

Kipp Ferns
President



TAKE NOTICE

Mississippi Geological Society

FALL BARBEQUE

FRIDAY, SEPTEMBER 7, 1984

FOWLER'S LODGE

That time is here again for our annual Fall Barbeque. Social activities with beer provided will begin at 4:30 P.M. and dinner served at 6:30 P.M.

T.C. will have his chef's hat on once again and will prepare smoked sausage, ham and beef and all the trimmings.

Please phone T.C. Rader with your reservations by Wednesday, September 5th at 969-3186.

Door Charge—\$5⁰⁰ per MGS member (1984-85 dues paid)*

\$10⁰⁰ Non-member

**Dues may be paid at the Barbeque. Membership card must be filled out at this time.*

Mississippi Geological Society
Luncheon Meeting
Tuesday, Sept. 11, 1984
Smackover Room, Petroleum Club

Speaker:

DR. ERNEST MANCINI

*State Geologist and State Oil & Gas Board
Supervisor for Alabama*

Topic:

*Hydrocarbon Potential of the Upper Jurassic
Norphlet Formation of Alabama*

Meeting Charge—\$10⁰⁰ per person
(Includes Buffet and Speaker)

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OF YOUR ATTENDANCE SO ADEQUATE SEATING
CAN BE ARRANGED**

Guest Speaker—
ERNEST A. MANCINI



Ernest A. Mancini, State Geologist and Oil and Gas Supervisor of Alabama, is a stratigrapher who specializes in the stratigraphy and petroleum geology of the Gulf Coastal Plain.

Dr. Mancini was educated at Albright College, Reading, Pennsylvania, (B.S., Biology, 1969); Southern Illinois University (M.S., Zoology, 1972); and Texas A&M University (Ph.D., Geology, 1974). Employed as an exploration geologist by Cities Services Company from 1974 to 1976, he worked on both the onshore and offshore areas of California and Alaska.

He has been a member of the Department of Geology at the University of Alabama since 1976, where he teaches graduate courses in petroleum geology and paleontology. The author of numerous publications, he has explored several areas of interest, such as the petroleum geology of Alabama and the stratigraphy and paleontology of Texas, Alabama, and Alaska.

Dr. Mancini is listed in *American Men and Women of Science* and *Who's Who in Technology Today*. He is a member of Phi Kappa Phi, Sigma Xi, Society of Economic Paleontologists and Mineralogists, American Association of Petroleum Geologists, Alabama Geological Society, Association of Gulf Coastal Plain Geologists, and International Geologic Correlation Program.

In the spring of 1981, Dr. Mancini was awarded the prestigious A.I. Levorsen Memorial Award and first place for Best Paper by the Gulf Coast Association of Geological Societies for his paper on the petroleum geology of southwest Alabama.

Dr. Mancini is married to the former Marilyn Lee of Peoria, Illinois, and they have two girls, Lisa age 11, and Lauren who is 6. The Mancinis reside in Northport, Alabama, and are members of Covenant Presbyterian Church.



ABSTRACT

Hydrocarbon Potential Of The Upper Jurassic Norphlet Formation of Alabama

*Ernest A. Mancini
Robert M. Mink
Bennett L. Bearden*

Since the discovery of oil in 1967 from the Smackover Formation at Toxey Field, Choctaw County, Alabama, and of gas condensate in 1968 from the Norphlet Formation at Flomaton field, Escambia County, Alabama, the Upper Jurassic has become the primary exploration target in southwestern Alabama. Following those initial discoveries, 43 Upper Jurassic fields have been established in Alabama, but only in 6 of these has the Norphlet produced hydrocarbons. The discovery of productive Norphlet gas sandstones in 1979 at the Lower Mobile Bay-Mary Ann field has demonstrated the potential of the Norphlet in offshore Alabama.

Norphlet petroleum traps in the region are principally combination traps involving favorable stratigraphy and salt anticlines, faulted salt anticlines, and extensional fault traps associated with salt movement along the regional peripheral fault system. Reservoir rocks include marine, eolian dune, and wadi sandstone lithofacies. Porosity is principally secondary dissolution with some intergranular porosity. Smackover algal carbonate mudstones are probably the source for much of the Norphlet hydrocarbons.



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UPCOMING GCAGS MEETING:

OCTOBER 24-26, 1984

in

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The Gulf Coast Association of Geological Societies
In Conjunction With

The Gulf Coast Section of SEPM

35th ANNUAL CONVENTION

Austin, Texas

October 16-19, 1985

Papers on Gulf Coast Geology are being accepted for presentation at the 35th Annual Convention of the Gulf Coast Association of Geologic Societies to be held in Austin, Texas.

All papers will be screened for content and quality prior to acceptance in accordance with the guidelines for papers required by the American Association of Petroleum Geologists. Accepted papers will be published in the GCAGS Transactions.

Please submit titles and abstracts to one of the following by January 15, 1985:

GCAGS:

Richard T. Buffler
University of Texas at Austin
Institute for Geophysics
4920 North IH 35
Austin, Texas 78751

Gulf Coast Section of SEPM:

Gary Kocurek
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CORE WORKSHOP

A special Lower Cretaceous core workshop is also being planned. General inquiries and papers should be directed to:

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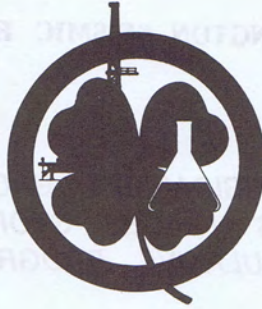
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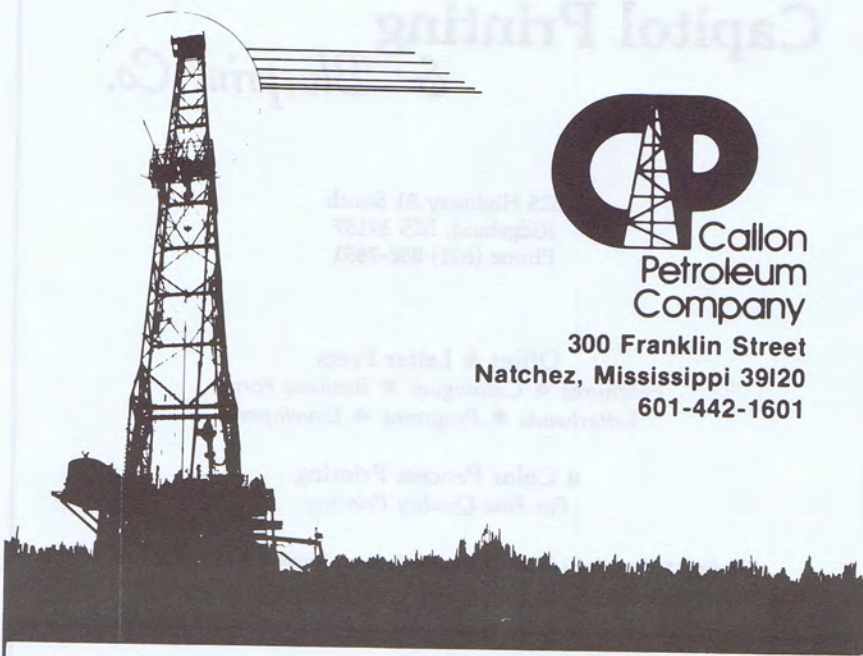
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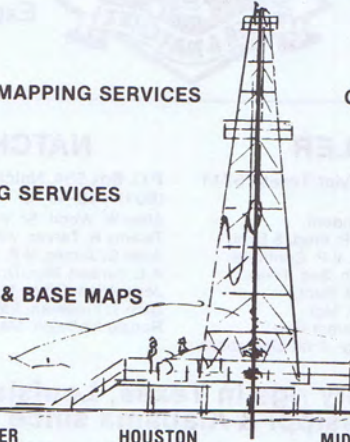
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SEPTEMBER 11, 1984

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Volume XXXII

No. 2

Oct. 1984



1984-1985



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Cover: Petrified log in Mississippi's petrified forest, 20 miles north of Jackson.



PRESIDENT'S MESSAGE . . .

Well, we have hit the ground running. This year again the Fall Barbeque was well attended. T.C. Rader and his crew did a tremendous job. Many thanks, T.C. Also, please do not forget to thank Schlumberger Well Services for furnishing the beer and soft drinks and Diamond Core Analysis for furnishing the wet bar. These services are appreciated by all members of the society. Thank you so much.

Our first noon meeting was also well attended, which brings me to an important point. **PLEASE CALL IN YOUR RESERVATION SO ADEQUATE SEATING CAN BE ARRANGED. THEN, DO NOT BE A NO SHOW.**

I ask all of our members, if you know of any member of the society who you believe is worthy of special recognition, please let me know so that we can submit their names in conjunction with the Honor and Awards Program of AAPG. Remember, to be honored by one's peers may be the most satisfying of all.

A new society Photo Directory is in the mill. This type of directory is requested by many different types of industry personnel. The more members who cooperate the better it will be. Let's see if we can get 100% cooperation from our society this time. More information will be forthcoming.

Another new society project is also in the planning. This will involve our members in educational lectures at schools in the Jackson area. If you are interested in this project, please get in touch with one of the society officers.

See you at the meeting October 9th.

Kipp Ferns
President



**TO: MISSISSIPPI GEOLOGICAL SOCIETY MEMBERS,
ASSOCIATES, AND FRIENDS
FROM: THE REDBOOK COMMITTEE**

Listed below are the proposed fields to be included in the present update of the society publication *Mesozoic and Paleozoic Producing Areas of Mississippi and Alabama*, also known as "The Redbook" to many individuals.

As most of you that have been involved in past updates know, this requires a great amount of time and effort both from the committee and from individuals or companies that are solicited for data, maps, logs, etc. If there are society members or others that have this information readily available, it would save much time and effort for the committee if you would contact the individual responsible for the particular field and volunteer this information to them.

The publication update is not limited to the following list. If an individual has interest in and can provide the committee with complete information necessary for publication, any new field, old field, or old field update, not previously published may also be included.

Let's make this a timely update and finish it before another fifty fields are discovered! Contact myself or any of the committee members if you have questions.

Sincerely,
Ron Tisdale
Redbook Committee Chairman

Field Name	County/State	Resp. Ind.	Field Name	County/State	Resp. Ind.
Armstrong Branch	Lamar Co., AL	SH	Maple Branch	Monroe Co., AL	SH
Ashwood	Wilkinson Co., MS	GH	Lower Mobile Bay	Offshore, AL	JD
Beaverton	Lamar Co., AL	GH	Magee	Simpson Co., MS	JF
Big Escambia	Escambia Co., AL	JD	McCracken Mtn.	Fayette Co., AL	GH
Blackjack Creek	Santa Rosa Co., AL	JD	McGee Lake/Star	Lamar Co., AL	DC
Blooming Grove	Fayette/Lamar Co., AL	SH	McRaney	Covington Co., MS	RT
Blowhorn/			Mechanicsburg	Yazoo Co., MS	RT
N. Blowhorn Crk.	Lamar Co., AL	SH	Millport	Lamar Co., AL	DC
Bovina	Warren Co., MS	DH	Morgantown Cmplx	Marion Co., MS	RT
Carson	Jeff Davis Co., MS	JM	Movico	Mobile Co., AL	JD
Catahoula Creek	Hancock Co., MS	DH	Mt. Zion	Lamar Co., AL	DC
Chatom	Washington Co., AL	JD	Newman	Hinds Co., MS	RT
Coal Fire Creek	Pickens Co., AL	GH	Newsome	Marion Co., MS	RT
Columbia	Marion Co., MS	JM	Oak Grove	Simpson Co., MS	RT
Dinan	Walthall Co., MS	GH	Oakridge	Warren Co., MS	RT
Fairview	Lamar Co., AL	GH	Olive	Pike Co., MS	GH
Fernbank	Lamar Co., AL	DC	Piney Woods/		
Foley/W. Foley	Baldwin Co., AL	JD	SW Piney Woods	Rankin Co., MS	DH
Glancy	Copiah Co., MS	RT	S. Prentiss	Jeff Davis Co., MS	RT
Greens Creek	Jeff Davis Co., MS	JM	W. Sandy Hook	Walthall Co., MS	JF
Hatter's Pond	Mobile Co., AL	JD	Stave Creek	Clarke Co., AL	JD
Holiday Creek	Jeff Davis Co., MS	RT	Tatums Camp	Lamar Co., MS	RT
Horseshoe Lake	Holmes Co., MS	RT	Thomasville	Rankin Co., MS	DH
Improve	Marion Co., MS	JM	Vintage	Jeff Davis Co., MS	JM
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Liberty	Amite Co., MS	GH	Yellow Creek	Lamar Co., AL	GH

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Mississippi Geological Society

Luncheon Meeting
Tuesday, Oct. 9, 1984

Smackover Room, Petroleum Club

Speaker:

MR. GREGORY A. SELF

*Amoco Production Company
New Orleans, LA*

Topic:

*Lockhart Crossing Field
The New "Down-Dip" Wilcox Trend*

Meeting Charge—\$10⁰⁰ per person
(Includes Buffet and Speaker)

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Guest Speaker—
GREG SELF



Greg Self was born in Gainesville, Florida where he also received his B.S. and M.S. degrees from the University of Florida.

Mr. Self is presently employed by Amoco Production Company, New Orleans, where he began his career in the oil industry in 1981. His responsibilities have primarily been in the area of exploitation geology where for the past two years he has been assigned the development and unitization of Lockhart Crossing and Livingston Fields, both of which are recent Wilcox discoveries.

Mr. Self is a member of the American Association of Petroleum Geologists and the New Orleans Geological Society.

**LOCKHART CROSSING
FIELD—
THE NEW "DOWN-DIP"
WILCOX TREND**

Gregory A. Self

Speaks At October 9th Meeting



— ABSTRACT —

LOCKHART CROSSING FIELD
THE NEW "DOWN-DIP" WILCOX TREND

Gregory A. Self and William D. Easom

On July 22, 1982 the Callon No. 1 Reed Erickson was successfully completed as an exciting new Wilcox discovery in Livingston Parish, Louisiana. This well, which had an initial potential of 630 BOPD, attracted immediate attention to a potentially significant new trend, and resulted in one of the most significant onshore U.S. discoveries for 1982. To date, 28 producers and 4 dry holes have been drilled in the field with gross daily production in excess of 10,000 BO of high quality 42° API gravity crude.

This new "Down-Dip" Wilcox trend lies south of the well known fluvial and deltaic Wilcox sequences which have been explored and produced for years. This new Wilcox trend consists primarily of shallow marine, nearshore, bar sands which display impressive lateral continuity in every direction. The sands are generally fine-to very fine-grained, clay-rich, and some exhibit a very subtle coarsening upwards sequence.

Within Lockhart Crossing Field the Upper Wilcox stratigraphy consists of a series of five discrete sands within a 500 ft. interval. Three of these sands are oil productive; however, the upper most "1st Wilcox Sand" accounts for the vast majority of the field's total reserves. Structurally, the Wilcox reservoir is a classic rollover anticline creating a rather simple trap with four-way closure. From a reservoir standpoint, the rock characteristics of the 1st Wilcox Sand create dramatic capillary pressure effects which initially masked the field's true size, making it appear much smaller than it actually turned out to be.

The economic significance of Lockhart Crossing Field has spurred considerable exploration activity in this new "Down-Dip" Wilcox trend since its discovery in 1982. In April of 1983 a Callon/Amoco AMI resulted in yet another significant Wilcox discovery in Livingston Parish (Livingston Field). With the continuing level of exploration activity in the trend chances are that additional discoveries will be made in the near future.



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Shreveport Geological Society

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OCTOBER 24-26, 1984

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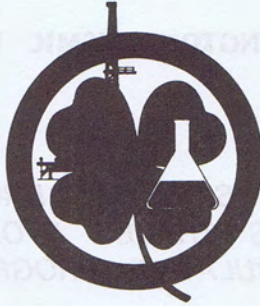
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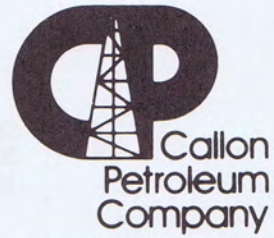
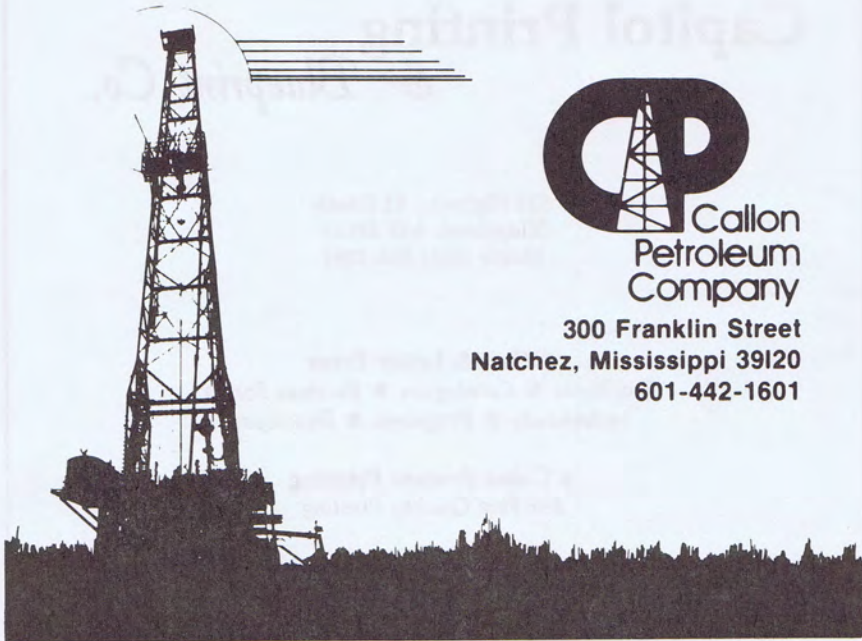
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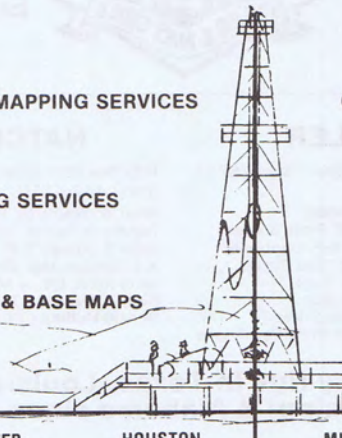
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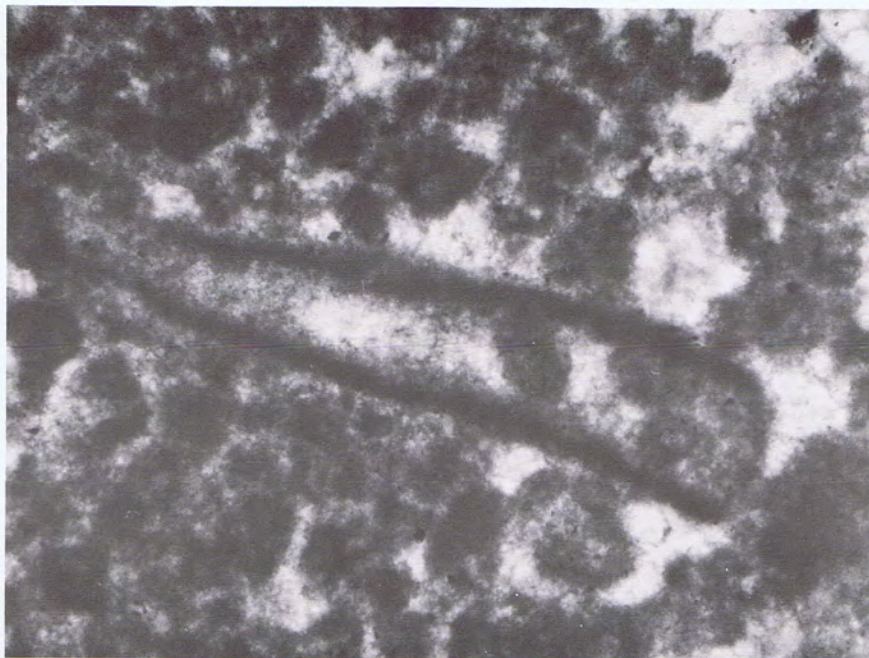


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Volume XXXII

No.3

Nov. 1984



1984-1985



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Cover: Is this a dubiofossil? (See Glossary of Geology, 1980, 2nd ed.) It is found in a Smackover core from Washington County, Alabama. The photomicrograph was made using polarized light and magnification of 25X.



PRESIDENT'S MESSAGE . . .

Two new items appear in our bulletin. First, a crossword puzzle designed with geologists in mind. This particular puzzle is reprinted by permission from the Corpus Christi Geological Society, Susan Wood, Bulletin co-editor. Also, we are adding the report of your Executive Committee's monthly meeting.

Dora Devery reports on the Photo Directory survey made at our October meeting. With 102 members present, 93 filled out questionnaires with the following results:

- 63 - Yes (interested in the Directory)
- 4 - No (not interested in the Directory)
- 22 - Did not say one way or the other

Of the 63 who are interested:

- 23 - (would pay \$5.00)
- 8 - (would pay \$6.00)
- 7 - (would pay \$7.00)

Twenty-one members checked the "other" category with comments varying from payment of \$2.00 to whatever was reasonable. Fifty-eight (58) of the 63 answering said that they would take the time to get pictures taken.

It appears from this survey that there is an interest in publishing a Photo Directory. Therefore, we will precede along these lines and you will receive more information in the near future.

See you at the November 13th meeting.

Kipp Ferns
President



**TO: MISSISSIPPI GEOLOGICAL SOCIETY MEMBERS,
ASSOCIATES, AND FRIENDS
FROM: THE REDBOOK COMMITTEE**

Listed below are the proposed fields to be included in the present update of the society publication *Mesozoic and Paleozoic Producing Areas of Mississippi and Alabama*, also known as "The Redbook" to many individuals.

As most of you that have been involved in past updates know, this requires a great amount of time and effort both from the committee and from individuals or companies that are solicited for data, maps, logs, etc. If there are society members or others that have this information readily available, it would save much time and effort for the committee if you would contact the individual responsible for the particular field and volunteer this information to them.

The publication update is not limited to the following list. If an individual has interest in and can provide the committee with complete information necessary for publication, any new field, old field, or old field update, not previously published may also be included.

Let's make this a timely update and finish it before another fifty fields are discovered! Contact myself or any of the committee members if you have questions.

Sincerely,
Ron Tisdale
Redbook Committee Chairman

Field Name	County/State	Resp. Ind.	Field Name	County/State	Resp. Ind.
Armstrong Branch	Lamar Co., AL	SH	Maple Branch	Monroe Co., AL	SH
Ashwood	Wilkinson Co., MS	GH	Lower Mobile Bay	Offshore, AL	JD
Beaverton	Lamar Co., AL	GH	Magee	Simpson Co., MS	JF
Big Escambia	Escambia Co., AL	JD	McCracken Mtn.	Fayette Co., AL	GH
Blackjack Creek	Santa Rosa Co., AL	JD	McGee Lake/Star	Lamar Co., AL	DC
Blooming Grove	Fayette/Lamar Co., AL	SH	McRaney	Covington Co., MS	RT
Blowhorn/			Mechanicsburg	Yazoo Co., MS	RT
N. Blowhorn Crk.	Lamar Co., AL	SH	Millport	Lamar Co., AL	DC
Bovina	Warren Co., MS	DH	Morgantown Cmplx	Marion Co., MS	RT
Carson	Jeff Davis Co., MS	JM	Movico	Mobile Co., AL	JD
Catahoula Creek	Hancock Co., MS	DH	Mt. Zion	Lamar Co., AL	DC
Chatom	Washington Co., AL	JD	Newman	Hinds Co., MS	RT
Coal Fire Creek	Pickens Co., AL	GH	Newsome	Marion Co., MS	RT
Columbia	Marion Co., MS	JM	Oak Grove	Simpson Co., MS	RT
Dinan	Walthall Co., MS	GH	Oakridge	Warren Co., MS	RT
Fairview	Lamar Co., AL	GH	Olive	Pike Co., MS	GH
Fernbank	Lamar Co., AL	DC	Piney Woods/		
Foley/W. Foley	Baldwin Co., AL	JD	SW Piney Woods	Rankin Co., MS	DH
Glancy	Copiah Co., MS	RT	S. Prentiss	Jeff Davis Co., MS	RT
Greens Creek	Jeff Davis Co., MS	JM	W. Sandy Hook	Walthall Co., MS	JF
Hatter's Pond	Mobile Co., AL	JD	Stave Creek	Clarke Co., AL	JD
Holiday Creek	Jeff Davis Co., MS	RT	Tatums Camp	Lamar Co., MS	RT
Horseshoe Lake	Holmes Co., MS	RT	Thomasville	Rankin Co., MS	DH
Improve	Marion Co., MS	JM	Vintage	Jeff Davis Co., MS	JM
Johns	Rankin Co., MS	DH	Vocation	Monroe Co., AL	JD
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RT	— Ron Tisdale, Union	601-948-8676

Mississippi Geological Society
Luncheon Meeting
Tuesday, Nov. 13, 1984
Smackover Room, Petroleum Club

Speaker:
DR. WAYNE AHR
Of Texas A & M

Topic:
*Reservoir Characteristics of Cotton Valley-
Haynesville Carbonates in East Texas*

Meeting Charge—\$10⁰⁰ per person
(Includes Buffet and Speaker)

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Guest Speaker—
WAYNE M. AHR



Wayne Ahr is a native Texan born December 11, 1938, in San Antonio. He was educated in the La Coste, Texas school system and then received a BS in Geology (University of Texas - El Paso: 1960), an MS in Oceanography (Texas A & M: 1965), and a PhD in Geology (Rice: 1967). His research career started with the Campeche Bank Project in the 1960's when he worked with B. W. Logan on Pleistocene and Holocene carbonates off Yucatan. His PhD work on Cambrian algal reefs in Texas was supervised by James Lee Wilson. Ahr worked at the Shell Labs in Houston and in the Houston Exploration Division for Shell before he went to Texas A & M in 1970. He is Professor of Geology at A & M and his current research is on burial diagenesis, Mississippian 'reef' facies, and Jurassic of the Gulf Rim.





— ABSTRACT —

**RESERVOIR CHARACTERISTICS OF COTTON VALLEY-
HAYNESVILLE CARBONATES IN EAST TEXAS**

Wayne M. Ahr

The Jurassic, Cotton Valley - Haynesville carbonates reflect deposition on a mature ramp that was evolving into a shelf via prograding and aggrading depositional processes. Unlike the Smackover ramp with its up-dip grainstone thicks, dolomites, and ponded evaporites, the Haynesville grainstones seem to represent more open marine calcarenites as contrasted with barrier shoals. Evaporites, dolomitization, and extensive dissolution, features so commonly associated with the Smackover, are absent in these rocks.

Haynesville reservoirs in Texas are mainly microporous and may have much intraparticle porosity. Examples from fields in Freestone, Upshur, and Smith counties illustrate the "special" reservoir characteristics of the Haynesville. The important "common denominators" between these fields are: 1) links to paleostructure, 2) strike orientation of open-marine sand waves, and 3) microporosity.



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UPCOMING GCAGS MEETING:

OCTOBER 24-26, 1984

in

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Mississippi Geological Society

CLASTIC SEMINAR

DR. DANIEL A. BUSCH

TOPICS:

*Genetic Units in Stratigraphy
Point Bars
Barrier Bars
Offshore Bars*

January 8, 1985 - evening

MORE DETAILS LATER



Executive Committee Meeting

September 19, 1984

ABSTRACT

The September meeting was opened by Kipp Ferns at the ANR conference room at 11:10 AM. Regarding the Photo Directory, George Harris reported progress in photography, printing negotiations. The inclusion of Jackson Geophysical Society in the directory was discussed. Debate, negotiations were to continue, to be updated in October. Similarly, compilation of the MGS Membership Directory will continue, as over one hundred "old" members had not registered by the deadline. The Fall Barbecue went well; appreciation was gratefully noted for all who contributed to its success. Work on the Red Book is progressing, as are efforts to mail all out-of-state bulletins first class. Finally, it was remembered the passing of former member Lance Rooker's son, Tim; Mrs. "Boots" Monsour, wife of honorary member Emil Monsour; and Scott Plum, husband of Carolyn Plum. Expressing the condolences shared by all of the membership, flowers were sent to the Rooker and Plum families, while a donation to the American Cancer Society was made in memory of Boots Monsour. Having finished all pertinent discussion, the meeting adjourned by Kipp Ferns at 1:15 PM.

Respectfully submitted,
Steve Walkinshaw, Secretary



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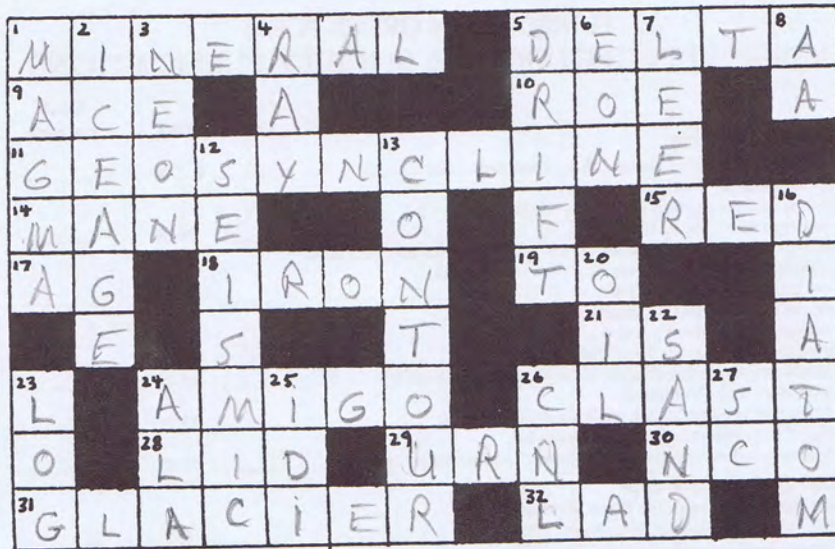
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- 1) A naturally occurring inorganic compound
- 5) A body of sediment formed at the mouth of a stream
- 9) Hole in one
- 10) Immature fish
- 11) A major downwarp in the earth's crust
- 14) Long neck hair
- 15) _____ coat, a British soldier
- 17) Agriculture, abbr.
- 18) Fe
- 19) A preposition
- 21) Be
- 24) Friend, Sp.
- 26) A rip-up feature: commonly clay
- 28) A covering
- 29) A vase
- 30) Sgt.
- 31) A mass of ice and snow that flows downhill under its own weight
- 32) A small boy

DOWN

- 1) Molten rock
- 2) Pleistocene Epoch
- 3) Gas used in electric lights
- 4) A beam of light
- 5) Continental _____
- 6) Largest division of geologic time
- 7) A suggestive look
- 8) Blocky lava
- 12) Tool used to predict subsurface structures using travel-time _____map
- 13) _____map
- 16) A one-celled plant with a siliceous framework
- 20) Liquid hydrocarbon
- 22) A reservoir rock
- 23) E- _____
- 24) Pie _____ mode
- 25) Amin
- 26) A gas indicator and porosity tool
- 27) Service company, abbr.

(Answer appears next issue)

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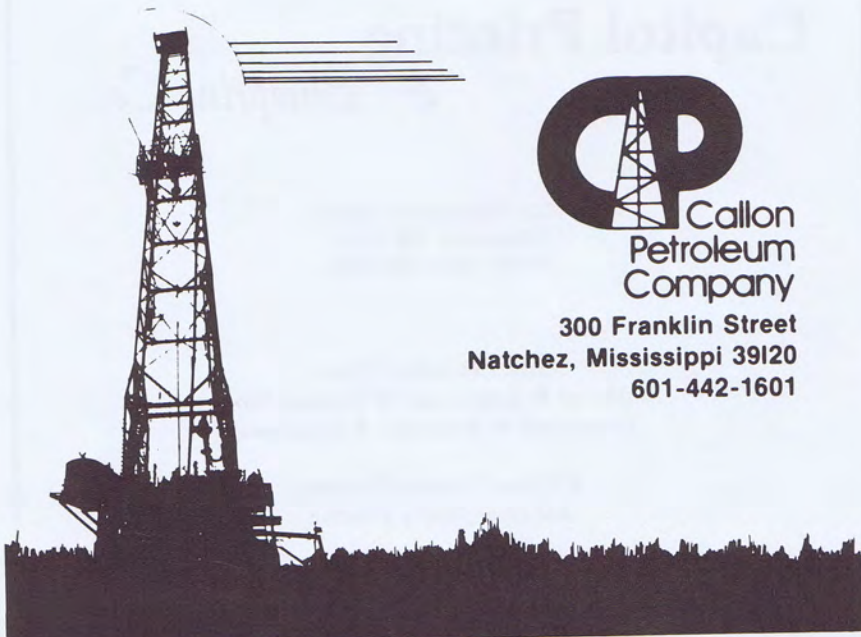
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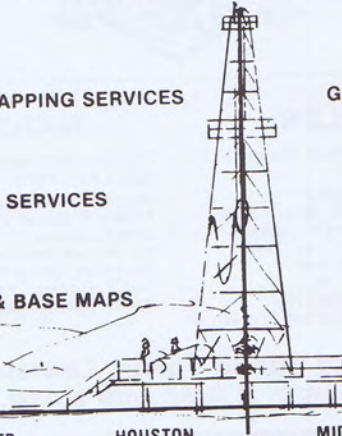
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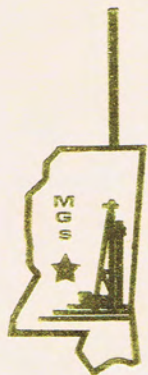
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MISSISSIPPI GEOLOGICAL SOCIETY

Volume XXXIII

No. 4

December, 1984



1984-1985

MISSISSIPPI GEOLOGICAL SOCIETY 1984-85

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COVER:

These four senior students pictured with Mrs. Lawrence Boland are the recipients of the 1985 Lawrence F. Boland Memorial Scholarship Fund.

Left to Right:

William Chatham, Miss. State University, Ava Edmonson, Millsaps College, Mrs. Lawrence Boland, Bert A. Hill, University of Southern Miss., and Joel Randy Powers, University of Miss.



PRESIDENT'S MESSAGE

GCACS has come and gone again. I spoke to a number of our members. All expressed satisfaction with the convention. The facilities in Shreveport were great.

Neil Barnes has lined up some top men in their fields for our upcoming seminars. Please mark your calendars now and plan to attend. Dr. Dan Busch will be here January 8, 1985 (Clastic Depositional Systems) followed by Dr. Gerald Friedman in April (Carbonate Depositional Systems).

Due to the availability of our speaker for January, our meeting time and place must be changed. Dr. Robert Ginsburg, an AAPG Distinguished Lecturer, will be our guest speaker on Wednesday, January 9, 1985. The meeting place will be the Downtown Holiday Inn in one of the rooms on the Mezzanine Level.

Dora Devery is busy on the Photo Directory. Watch for announcements and be a part of the Directory.





LAWRENCE F. BOLAND MEMORIAL SCHOLORSHIP FUND

The M.G.S. Lawrence F. Boland Scholarship Committee awarded four \$700 scholarships at the Societies November meeting. Mrs. Peg Boland, Larry's widow, presented the checks to the four recipients, who are William B. Chatham, Mississippi State University; Joel Randy Powers, University of Mississippi; Bert Alan Hill, University of Southern Mississippi and Ava McDaniel Edmondson, Millsaps College; all seniors in geology. This ceremony represents the third annual presentation of the scholarships. Remember, donations to the scholarship fund are tax deductible, and give the society the opportunity to make a meaningful contribution to the continuing excellence of the geology students at our state institutions.



Mississippi Geological Society

Luncheon Meeting
Tuesday, December 11th, 1984
Smackover Room, Petroleum Club

Speaker:
SARA KEMP STEWART

Topic:
Smackover And Haynesville Facies Relationships
In North-Central East Texas

Meeting Charge—\$10⁰⁰ per person
(Includes Buffet and Speaker)

PLEASE NOTIFY T.C. RADER (969-3286)
OF YOUR ATTENDANCE SO ADEQUATE SEATING
CAN BE ARRANGED
Please call before Noon on
December 10th.



Guest Speaker—
SARA KEMP STEWART

Sara Kemp Stewart was born in Tennessee and grew up in Baton Rouge, Louisiana where she attended public school. Sara received her Bachelor of Science degree in geology from LSU - Baton Rouge. She worked as a research associate for the Applied Carbonate Research Program at LSU to organize a Smackover - Haynesville study in East Texas. When she entered the Master's program at LSU in 1982, Sara worked the Jurassic in the central region of East Texas for her thesis study, incorporating studies of the regional stratigraphy and diagenesis. Currently Sara is employed by Pennzoil in Houston, Texas.





— ABSTRACT —
**SMACKOVER AND HAYNESVILLE
FACIES RELATIONSHIPS IN
NORTH-CENTRAL EAST TEXAS¹**

Sara K. Stewart²

ABSTRACT

The Smackover Formation was deposited as a coarsening-upward carbonate unit that developed first with the deposition of transgressive laminated silty limes in deep anoxic waters. Mudstones and wackestones were deposited as the carbonate system established with a slow rise in sea level. Packstones and grainstones were deposited at the Smackover shelf margin in thick coarsening-upward sequences. Local lenses of anhydrite and dolomitic mud developed on the shoreward side of the shelf break. Pelleted sands also developed in the low-energy Smackover lagoon. Ultimately, a thin blanket of ooids sands covered the shelf.

During Haynesville time, a carbonate barrier at the shelf margin created an evaporative lagoon in which Buckner anhydrite and halite precipitated. As sea level rose, limestones and dolomites were deposited along the downdip margin of the Buckner lagoon. Terrigenous clastics began to prograde into the updip areas. Continued sea level rise flooded the shelf, and Gilmer limestones were deposited as far updip as the present-day Mexia-Talco fault zone. At the end of Haynesville time, limes and shales were deposited on either side of the Gilmer shelf margin as quartzose clastics continued to prograde into updip areas.

Evidence in East Texas suggests that the depositional model for the Smackover followed a shelf margin rather than the generally accepted ramp model. The shelf margin is clearly identified as a carbonate barrier during Haynesville time, outlining a Buckner lagoon as the depocenter that continued to experience subsidence at least through the end of the Haynesville time.

¹Full text published by East Texas Geological Society, in *Jurassic of East Texas*, March, 1984.

²Pennzoil, P. O. Box 2967, Houston, Texas 77252

**TO: MISSISSIPPI GEOLOGICAL SOCIETY MEMBERS,
ASSOCIATES, AND FRIENDS
FROM: THE REDBOOK COMMITTEE**

Listed below are the proposed fields to be included in the present update of the society publication *Mesozoic and Paleozoic Producing Areas of Mississippi and Alabama*, also known as "The Redbook" to many individuals.

As most of you that have been involved in past updates know, this requires a great amount of time and effort both from the committee and from individuals or companies that are solicited for data, maps, logs, etc. If there are society members or others that have this information readily available, it would save much time and effort for the committee if you would contact the individual responsible for the particular field and volunteer this information to them.

The publication update is not limited to the following list. If an individual has interest in and can provide the committee with complete information necessary for publication, any new field, old field, or old field update, not previously published may also be included.

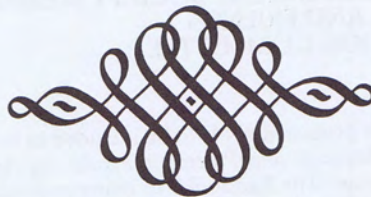
Let's make this a timely update and finish it before another fifty fields are discovered! Contact myself or any of the committee members if you have questions.

Sincerely,
Ron Tisdale
Redbook Committee Chairman

Field Name	County/State	Resp. Ind.	Field Name	County/State	Resp. Ind.
Armstrong Branch	Lamar Co., AL	SH	Maple Branch	Monroe Co., AL	SH
Ashwood	Wilkinson Co., MS	GH	Lower Mobile Bay	Offshore, AL	JD
Beaverton	Lamar Co., AL	GH	Magee	Simpson Co., MS	JF
Big Escambia	Escambia Co., AL	JD	McCracken Mtn.	Fayette Co., AL	GH
Blackjack Creek	Santa Rosa Co., AL	JD	McGee Lake/Star	Lamar Co., AL	DC
Blooming Grove	Fayette/Lamar Co., AL	SH	McRaney	Covington Co., MS	RT
Blowhorn/			Mechanicsburg	Yazoo Co., MS	RT
N. Blowhorn Crk.	Lamar Co., AL	SH	Millport	Lamar Co., AL	DC
Bovina	Warren Co., MS	DH	Morgantown Cmplx	Marion Co., MS	RT
Carson	Jeff Davis Co., MS	JM	Movico	Mobile Co., AL	JD
Catahoula Creek	Hancock Co., MS	DH	Mt. Zion	Lamar Co., AL	DC
Chatom	Washington Co., AL	JD	Newman	Hinds Co., MS	RT
Coal Fire Creek	Pickens Co., AL	GH	Newsome	Marion Co., MS	RT
Columbia	Marion Co., MS	JM	Oak Grove	Simpson Co., MS	RT
Dinan	Walthall Co., MS	GH	Oakridge	Warren Co., MS	RT
Fairview	Lamar Co., AL	GH	Olive	Pike Co., MS	GH
Fernbank	Lamar Co., AL	DC	Piney Woods/		
Foley/W. Foley	Baldwin Co., AL	JD	SW Piney Woods	Rankin Co., MS	DH
Glancy	Copiah Co., MS	RT	S. Prentiss	Jeff Davis Co., MS	RT
Greens Creek	Jeff Davis Co., MS	JM	W. Sandy Hook	Walthall Co., MS	JF
Hatter's Pond	Mobile Co., AL	JD	Stave Creek	Clarke Co., AL	JD
Holiday Creek	Jeff Davis Co., MS	RT	Tatums Camp	Lamar Co., MS	RT
Horseshoe Lake	Holmes Co., MS	RT	Thomasville	Rankin Co., MS	DH
Improve	Marion Co., MS	JM	Vintage	Jeff Davis Co., MS	JM
Johns	Rankin Co., MS	DH	Vocation	Monroe Co., AL	JD
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Dr. Daniel A. Busch
Consultant Tulsa, Oklahoma

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A Short Course

January 8, 1985
6:30 P.M.—10:30 P.M.
Millsaps College — Academic Complex-Room 215

Pre-Registration \$35.00* (\$40.00 at the door)
(Deadline to Pre-Register Jan 4, 1985)
Students/Faculty \$10.00

*Pre-Registration Firm in this Bulletin

Pre-Registration Form
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Clastic Depositional Environment
January 8, 1985

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DR. DANIEL BUSCH -- Consultant, Tulsa, Oklahoma; PH.D., Ohio State University; Senior Research Geologist, Carter Oil Company, 1946-51; Manager, Exploration, Zephyr Petroleum Co., 1951-54; Consultant, 1955 to date. Vice President, AAPG, 1965-66; Distinguished Lecturer, AAPG, and elected to Honorary Membership in 1971. Visiting Professor, University of Oklahoma 1966-75. Consulting geological work in U.S., Mexico, South America, Europe, Africa, Middle and Far East. Author of AAPG Memoir, "Stratigraphic Traps in Sandstone -Exploration Techniques" and numerous papers on Petroleum Geology. Professor of Geology, Oil & Gas Consultants International, Inc. (OGCI), and International Petroleum Institute, Ltd. (IPI)

January Meeting

AAPG Distinguished Lecturer
Dr. Robert Ginsburg


Wednesday, January 9, 1985
At The
Downtown Holiday Inn
Buffet Line Open at
11:30 A.M. (Mezzanine Level)

PLAN AHEAD

Dr. Gerald M. Friedman
Carbonate Reservoirs Seminar

April 9, 1985

Watch for Furthur Announcements



Executive Committee Meeting
November 8, 1984

ABSTRACT


The November meeting was opened by Kipp Ferns at the ANR conference room at 11:40 A.M. Noting progress in negotiations, Dora Devery updated the committee regarding the Photo Directory. Hedermans' will be the probable printer. Discussion, led by Cecil Bassett, stressed participation by out-of-state members. The membership directory is due out shortly, delayed by lagging renewals. Total membership is approximately 480.

Regarding the Boland Fund Committee was debated, with discussion to continue. The addition of more articles to the Bulletin is continuing. Neil Barnes briefed everyone on progress with the Evening Seminars, the first of which will be held January 8th, 1985. Pre-registration fees were set at \$10.00 for professors and students, \$35.00 for industry personnel.

With expressed sympathy, the passing of Kipp Fern's sister, Dorothy Murray, was noted; a donation to the American Cancer Society was made in her memory.

Having finished all pertinent discussion, the meeting was adjourned by Kipp Ferns at 1:10 P.M.

Respectfully Submitted,
Steve Walkinshaw, Secretary



ANSWERS TO NOV.'S PUZZLE

1	M	2	I	3	N	E	4	R	A	L		5	D	6	E	7	L	T	8	A
9	A	C	E		A							10	R	O	E					A
11	G	E	O	12	S	Y	N	13	C	L	I	N	E							
14	M	A	N	E				O				F		15	R	E		16	D	
17	A	G		18	I	R	O	N			19	T	20	O						I
		E		S				T				21	I	22	S					A
23	L		24	A	M	25	I	G	O			26	C	L	A	27	S	T		
			28	L	I	D		29	U	R	N			30	N	C	O			
31	G	L	A	C	I	E	R					32	L	A	D					M

CROSSWORD PUZZLE

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Mississippi Geological Society
CLASTIC SEMINAR

DR. DANIEL A. BUSCH

TOPICS:

Genetic Units in Stratigraphy

Point Bars

Barrier Bars

Offshore Bars

January 8, 1985 - evening

See bulletin for further details.

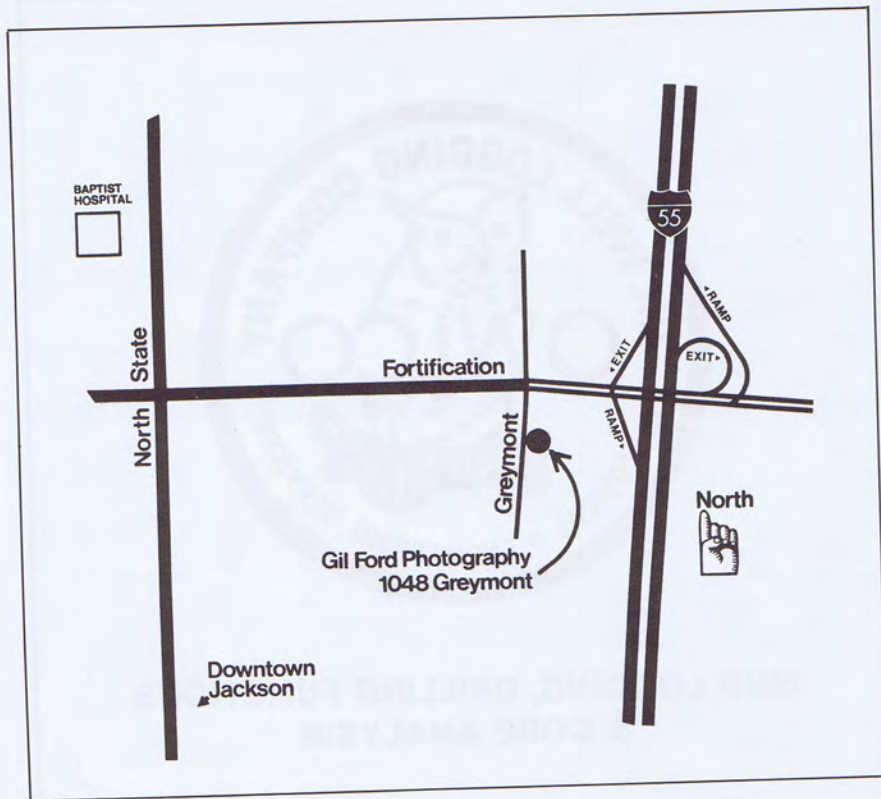


1985 PHOTO DIRECTORY MISSISSIPPI GEOLOGICAL SOCIETY

At the October meeting M.G.S. members were asked whether or not they would like to have an updated Photo Directory. More than 60% of those at the meeting were in favor of having such a publication; therefore, we are proceeding with this task and plan to have the Directory ready for sale by February 25, 1985.

We need a picture of each M.G.S. member. Opportunities to get photos to us include the following options:

1. From December 1, 1984 - January 18, 1985 individuals can go to Gil Ford's studio between the hours of 8:30 a.m. - 5:30 p.m., Monday thru Friday, at 1048 Greymont Avenue (phone 353-9675). Please identify yourself as a M.G.S. member and fill-out information sheet.
2. At the next M.G.S. Luncheon Meeting, December 11, 1984, a photographer from Gil Ford's studio will set up shop in the Smackover Room of the Petroleum Club from 11:00 a.m. - 12:00 noon, (prior to the talk. This is probably the easiest and most convenient way for members in-town to get their pictures taken, so please consider coming early to the next meeting.
3. If you live out of town or simply cannot make these photo sessions, then please send a 4" x 5" Black and White print to: Attention: Dora Devery, Miss. Geological Society, P. O. Box 422, Jackson, MS 39205-0422. On the back of the photo or on an accompanying sheet of paper please print (or type) the following information: your name; company affiliation, position or title, company address, and company phone number; home address and home phone number; college(s) attended, major subject, degree(s) obtained; and spouse's name.



We need all photo's by (and no later than) January 18,1985. This deadline is critical if the Photo Directory is to be printed and ready for sale by February 25, 1985.

ANOTHER EQUALLY IMPORTANT NOTE IS TO PROSPECTIVE ADVERTISERS. INDIVIDUALS OR COMPANIES WANTING TO ADVERTISE IN THE PHOTO DIRECTORY SHOULD CONTACT CECIL BASSETT 601/992-1104.

Everyone's assistance and cooperation is appreciated.





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DINOSAUR TRACKS IN THE LOWER CRETACEOUS OF ARKANSAS

by Jeffrey G. Pittman, 222 Spring Street, Shreveport, LA 71101; and David D. Gillette, New Mexico Museum of Natural History, Albuquerque, NM 87194-7010

Several thousand tracks of large sauropod dinosaurs (four-legged vegetarians like *Brontosaurus*) were discovered in late 1983 near Nashville, Howard County, Arkansas in two beds within the upper part of the De Queen Formation (albian, Gulf Coast Trinity Group). The subsurface equivalent of the upper part of the De Queen Formation is the lowermost section of the Mooringsport Formation of the Ark-La-Tex. The track-bearing beds were exposed by strip mining operations in the Brair Plant gypsum quarry located 10 miles north of Nashville. The thin limestone beds on which the tracks occur are interbedded with subtidal clay, silt and sand in which several exposure surfaces may be observed.

The surface of the upper bed was so densely covered with tracks that deciphering which tracks belong to which tracks belong to which dinosaur was difficult over most of the area. In several instances, however, trackways of individual dinosaurs were traced for distances of up to 200 feet (60m). Most isolated tracks and individual trackways display preferred orientation, indicating that the tracks, were made by a group of dinosaurs walking across the area. Several exceptions to this trend do occur. In fact, one trackway of a nonconformist dinosaur extends across the entire area oriented perpendicular to the main trend.

Rear tracks are broadly U-shaped, apex forward, with a shallow depression around the edge. Typical length-width dimensions for rear footprints are 2 feet x 2 feet (60 x 60 cm). The broadly ovate front footprints are approximately one-half the size of the rear tracks (Figure 1). Stride lengths average near 8 feet (2.5 m), while pace lengths average near 5 feet (1.5 m). No footprints of small sauropods or of other species have been recognized.

Scale: 1 square = 1 foot

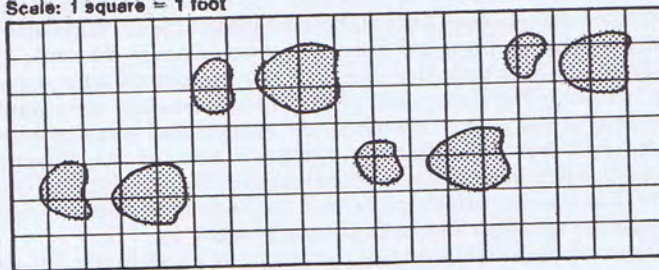


Figure 1. Map of a section of one of the trackways. Stride is measured from right rear toe to right rear toe, for example. Pace is measured from right toe to left toe to right toe and so on.

Four toe impressions on the hind foot are preserved in several tracks. This morphology closely resembles that of the Glen Rose

sauropod footprints, generally attributed to the genus *Pleurocoelus*, from many sites in Texas. The Arkansas assemblage of tracks is the easternmost trackway locality in the Lower Cretaceous of the Gulf Coastal Plain.

The tracks were uncovered by a variety of methods, the most successful method being shoveling and sweeping along with the use of a portable air compressor. Once the clay within the tracks was removed a one foot grid was placed across the trackway. Then the track outlines were traced onto graph paper. By using this method 5 trackways have been mapped for a total of about 500 feet. In addition, aerial photos, such as the one on the cover, were taken when light and moisture conditions were right to highlight the tracks. Silicone rubber and fiberglass casts were made of a section of two trackways. One 65 foot section has been reproduced in fiberglass for placement at the Howard County courthouse in Nashville.

The tracks are located in an active section of the quarry and are blasted away in the strip mining process. Fortunately, we have the casts, photos, and trackway maps as a record. As mining continues more tracks are being uncovered. Hopefully, it will be possible over the next few years to make more maps, casts, and photos of new trackways.

Subsurface Vertebrates

When studying for our geology degrees most of us learned a good bit about the various invertebrates we see fossilized in the rocks we drill through, but few have had the chance to take a course in vertebrate paleontology. Because of this, we all too seldom ponder the diverse face of Mesozoic landscapes which lie buried beneath us. When we are correlating our well logs how often do we pause and think "Hey! There were critters scampering across the top of that S. P.---and some were Biguns!"?

Coelurosaurs, phytosaurs, metoposaurs, and the earliest mammals surely prowled the banks and lurked within the streams of northeast Texas and southern Arkansas during Eagle Mills time. The gigantic sauropods of the Jurassic roamed the shoreline of Cotton Valley days and their descendants undoubtedly scouted the floodplains of the Hosston Formation. We know from the tracks and bones of Texas, Oklahoma, and Arkansas that sauropods, ornithopods, and ferocious carnososaurs patrolled the shoreline and mudflats during deposition of the Trinity Group. Don't forget the plesiosaurs, ichthyosaurs, mosasaurs, sharks, rays, and bony fish who swam in the seas, the crocodiles who live near the shore, or the pterosaurs who soared across the skies. The floodplains of the Tokio Formation were surely the scene of many a quiet afternoon and many a foul battle between predator and prey. And think of Nacatoch time, at the climax of their reign, when the mighty *Tyrannosaurus* stalked duck-billed hadrosaurs, fast-moving ornithopods, and the lumbering *Triceratops*. If all happened and their bones lie buried beneath us.

So, the next time you look at an electric log of a well in the Ark-La-Tex put your finger at the top of the Arkadelphia and realize that this was when, after over 100 million years of dominance, they finally kicked the bucket. And, if you get lucky, maybe you'll core through the bones of some of our long lost cousins, stacked like cordwood in some ancient stream channel. Just one more reason to use core analyst who has a keen eye!

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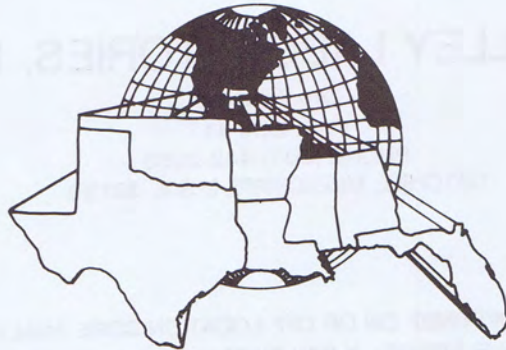
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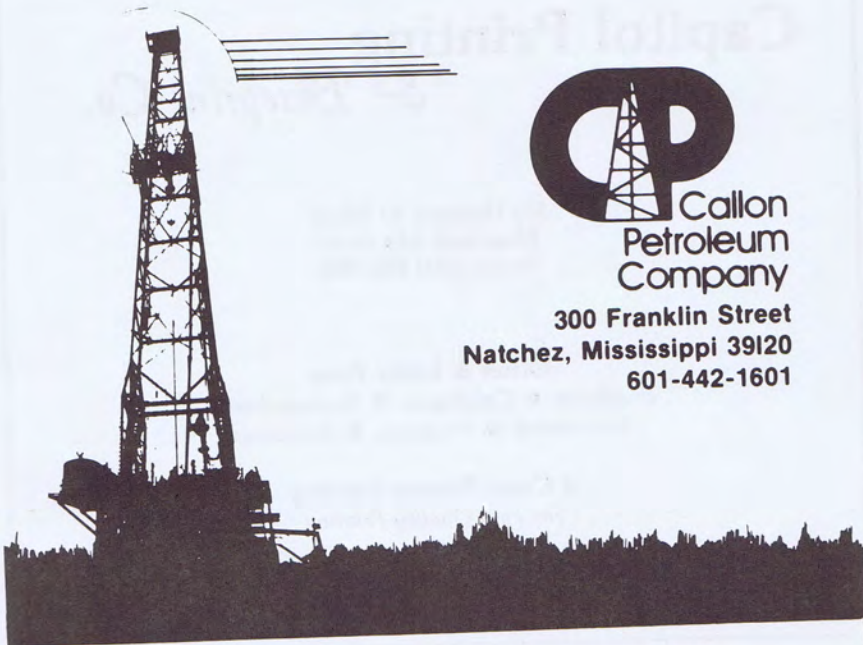
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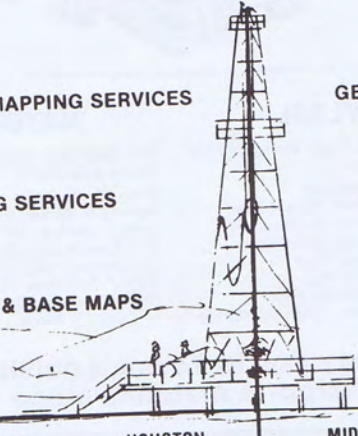
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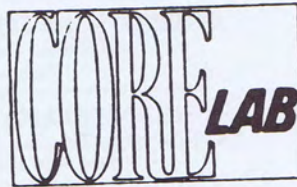
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COVER:

Pleistocene beach ridges at Joulter's Cay, Bahamas, and oolite sand bars, Ginsburg's seminar, University of Miami.

Photo by Don Hudson



PRESIDENT'S MESSAGE

Neil Barnes has the new year off to a great start, having scheduled two highly renowned gentlemen in their respective fields to be with us. On January 8, 1985 from 6:30 to 10:30 p.m., Dr. Daniel A. Busch will present a short course, Clastic Depositional Environments. This is followed by our January lunch scheduled for Wednesday, January 9, 1985, at the Downtown Holiday Inn with our guest, AAPG Distinguished Lecturer, Dr. Robert Ginsburg.

It makes us all feel good when one of our peers is rewarded for a job well done. Justin Devery with Union Oil Company of California has been promoted to Area Geologist with his new responsibility being the Eastern Off-Shore Area (Gulf of Mexico). This, of course, necessitates Justin and Dora (MGS 2nd Vice President) moving from Jackson, Mississippi to Houston, Texas. On behalf of the Society, I wish to express our best wishes and sincere thanks to two very professional people who over the years have supported fully the Mississippi Geological Society both with their time and talents. A little extra thanks to Dora for the fine job she has done in getting the Photo Directory off the ground and off to a good start.

Now a special thanks to George Harris, Union Oil Company of California, for allowing himself only a short leave of absence before returning to the working ranks of MGS. George has agreed to the job of putting the Photo Directory together. Many thanks George.

It is necessary that our society hold two elections. The first is for a new Second Vice President to replace Dora. Plans are to hold this election in January so please watch for announcements in the mail.

It is also necessary to elect two delegates to the AAPG House of Delegates. This will be held by the AAPG office in Tulsa. AAPG members please watch for the election materials being sent directly to you..

Much to my surprise, I was notified by AAPG that our society has only 211 paid active members in AAPG. I urge all of our society to strongly consider joining. Please contact any of your delegates (listed in the front of the book) for details or applications.

Check the new format for our Bulletin — News, Articles and Announcements are now dispersed throughout the Bulletin beginning with this issue.

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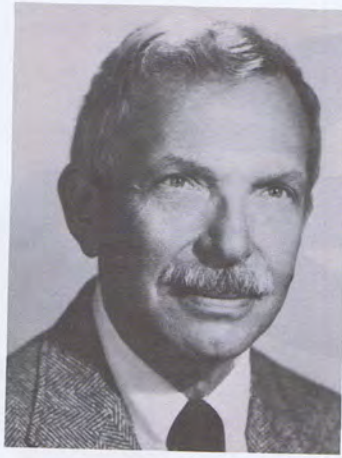
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ROBERT N. GINSBURG

Robert N. Ginsburg was born in Wichita Falls, Texas and later attended the University of Illinois, earning his B.A. degree in Geology. Dr. Ginsburg later earned his Master's Degree in Geology at the University of Chicago, and his PhD in geology also at the University of Chicago.

Dr. Ginsburg has had a great deal of varied experience. In 1950 to 1954 he was at the University of Miami, Marine Laboratory, in 1954 to 1965 he was at the Shell Development Company. From 1965 to 1970 Dr. Ginsburg was at Johns Hopkins University and from 1970 to the present he has been at the Comparative Sedimentology Laboratory, Division of Marine Geology and Geophysics, Rosentiel School of Marine and Atmosphere Science, the University of Miami, at Fisher Island, Florida.

Dr. Ginsburg also holds membership in various organizations, among which are the American Association of Petroleum Geologists, American Association for the Advancement of Science (Fellow), the American Institute of Professional Geologists, the Florida Academy of Science, the Geological Society of America (Fellow), the International Association of Sedimentologists, where he serves as Vice-President, the Society of Economic Paleontologists and Mineralogists, Past president, and the International Symposium on Coral Reefs, where he has served as the Past Chairman of Organizing Committee.

Dr. Ginsburg is currently employed at the University of Miami where he is the Professor of Sedimentology, of the Comparative Sedimentology Laboratory.

Dr. Ginsburg is also the 1984 recipient of the prestigious Twenhofel Award given by the S.E.P.M.

ABSTRACT SEDIMENTARY MODELS DERIVED FROM BAHAMIAN CARBONATES

Robert N. Ginsburg
Professor of Sedimentology
University of Miami

Three decades of research on the Cenozoic carbonate platforms of the Bahamas have produced several models of deposition and diagenesis. The models are sufficiently varied and numerous that they can be categorized and their interactions evaluated. The models can be divided into three types: two-dimensional patterns of depositional facies; process models of sediment formation, deposition, and diagenesis; and concepts of facies succession.

Patterns of depositional facies range in scale from a kilometer or less in the bar and channel morphology of ooid sand spreads, to a few kilometers in channeled tidal flats to as much as 100 km (62 mi) in the platform to basin zonation of reefs and sediments.

The spectrum of process models extends from grain formation (peloids and ooids), to major modes of accumulation (net shoreward movement of lime mud with attendant seaward progradation of shoaling cycles), to sea-floor cementation that yields aggregate gains and hardgrounds.

Vertical facies successions on the scale of several meters are seen in the shoaling deposits of tidal flats and in the coarsening-upward sequences of sand shoals. Larger scale changes in facies from skeletal to nonskeletal deposits that are tens of meters thick occur in the subsurface Pliocene-Pleistocene carbonates.

These three kinds of sedimentary models interact in various ways. An example of the influence of pattern on process is seen in the channels between tidal bars of ooid sand. The growth of tidal bars of ooid sand leads to accelerated tidal currents in the intervening channels; the result is a channel-lag of coarser sediments that limits traction movement of lime sands and especially the nuclei for continued formation of ooids. Deceleration of ooid formation can in time lead to stabilization of the moving sands with attendant alterations of grains and sedimentary structures. An example of the effect of process on pattern is seen in the formation of extensive hardgrounds on lime sands of the platform interior by submarine cementation. These hardgrounds are rapidly colonized by transformation of sediment type and the appearance of the preferred substrate for reefs. An example of the interaction between facies is seen in two aspects of reefal deposits: the preferential development of some reefs seaward of islands or growing sand shoals and the burial of other reefs that fringe leeward margins of the platforms by off-bank transport of lime sands from the interiors.



CALL FOR PAPERS

The Gulf Coast Association of
Geological Societies
In Conjunction With
The Gulf Coast Section of SEPM

35th ANNUAL CONVENTION
Austin, Texas
October 16-19, 1985

Papers on Gulf Coast Geology are being accepted for presentation at the 35th Annual Convention of the Gulf Coast Association of Geologic Societies to be held in Austin, Texas.

All papers will be screened for content and quality prior to acceptance in accordance with the guidelines for papers required by the American Association of Petroleum Geologists. Accepted papers will be published in the GCAGS Transactions.

Please submit titles and abstracts to one of the following by January 15, 1985:



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Executive Committee Meeting
December 4, 1984

ABSTRACT

The December meeting was opened by Kipp Ferns at 11:40 A.M. The January meeting will be moved to Wednesday, January 9th, as will the meeting place: HOLIDAY INN, DOWNTOWN, second floor. Parking passes, facilitating free parking for those members not located downtown, will be provided at the registration table.

Having moved to Houston, Dora Devery has resigned as Second Vice-President of the Society. George Harris of Unocal will take over Photo Directory responsibilities. A nominating committee, headed by David Cate (Pruet Oil), will meet to select candidates for a special election at the January luncheon. Also, election of AAPG delegates to replace those stepping down will be conducted by the national office in the near future.



Mississippi Geological Society
CLASTIC SEMINAR

DR. DANIEL A. BUSCH

TOPICS:

Genetic Units in Stratigraphy
Point Bars
Barrier Bars
Offshore Bars

January 8, 1985 - evening

See bulletin for further details

FEBRUARY SPEAKER:

Bill Vineyard
Topic: Current Activity Update On
Mesozic Trends
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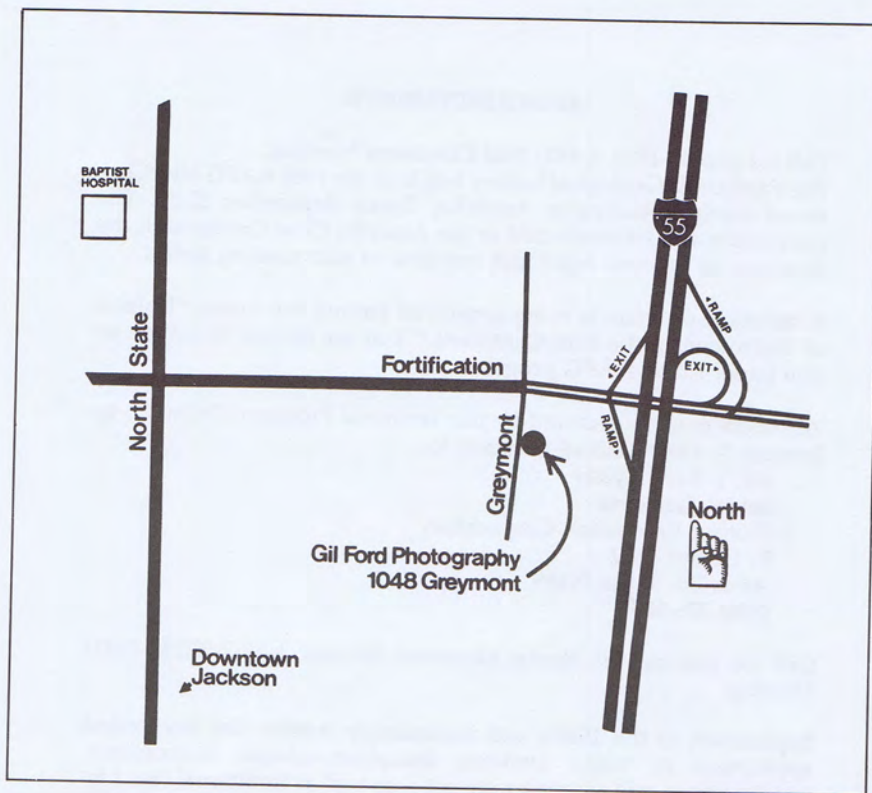


1985 PHOTO DIRECTORY MISSISSIPPI GEOLOGICAL SOCIETY

At the October meeting M.G.S. members were asked whether or not they would like to have an updated Photo Directory. More than 60% of those at the meeting were in favor of having such a publication; therefore, we are proceeding with this task and plan to have the Directory ready for sale by February 25, 1985.

We need a picture of each M.G.S. member. Opportunities to get photos to us include the following options:

1. From December 1, 1984 - January 18, 1985 individuals can go Gil Ford's studio between the hours of 8:30 a.m. - 5:30 p.m., Monday thru Friday, at 1048 Greymont Avenue (phone 353-9675). Please identify yourself as a MGS member and fill out information sheet.
2. At the next M.G.S. Luncheon Meeting, January 9, 1985, a photographer from Gil Ford's studio will set up shop in the Holiday Inn Downtown, from 11:00 a.m. - 12:00 noon, (prior to the talk). This is probably the easiest and most convenient way for members in-town to get their pictures taken, so please consider coming early to the next meeting.
3. If you live out of town or simply cannot make these photo sessions, then please send a 4" x 5" Black and White print to: Attention: Dora Devery, Miss. Geological Society, P. O. Box 422, Jackson, MS 39205-0422. On the back of the photo or on an accompanying sheet of paper please print (or type) the following information: your name; company affiliation, position or title, company address, and company phone number; home address and home phone number; college(s) attended, major subject, degree(s) obtained; and spouse's name.



We need all photo's by (and no later than) January 18,1985. This deadline is critical if the Photo Directory is to be printed and ready for sale by February 25, 1985.

ANOTHER EQUALLY IMPORTANT NOTE IS TO PROSPECTIVE ADVERTISERS. INDIVIDUALS OR COMPANIES WANTING TO ADVERTISE IN THE PHOTO DIRECTORY SHOULD CONTACT CECIL BASSETT 601/992-1104.

Everyone's assistance and cooperation is appreciated.



ANNOUNCEMENTS

Call for papers-1985 AAPG Mid Continent Meeting.
The Panhandle Geological Society will host the 1985 AAPG Mid-Continent Section Meeting in Amarillo, Texas, September 22-24. The convention will be conducted at the Amarillo Civic Center with the Sheraton as the host hotel and overflow at surrounding hotels.

A technical program is being organized around the theme "**Habitat of Petroleum in the Mid-Continent.**" You are invited to submit an oral paper to the AAPG program.

Abstracts must be received by the Technical Program Chairman by January 1, 1985. Mail all abstracts to:

Mr. J. Reed Lyday
Senior Geologist
Pioneer Production Corporation
P. O. Box 2542
Amarillo, Texas 79189
(806) 376-5891

Call for papers-1985 Rocky Mountain Section AAPG-SEPM-EMD Meeting.

Exploration in the 1980's will increasingly involve the intergrated application of many evolving disciplines—seismic innovations, geochemistry, and computer science—as well as traditional case history evaluation and classic stratigraphy and structural analysis. We invite your contribution to a technical program whose theme—**Many ways to future plays**—will highlight the integration of these many disciplines to current exploration in the Rocky Mountain region.

A full program of both separate and joint AAPG, SEPM, and EMD oral and poster sessions, short courses, and field trips is being planned around the keynote theme, but the program will also provide for general sessions on related topical subjects.

Section meeting is in Denver, Colorado, June 2-5, 1985.

Mail abstract to appropriate chairman:

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ANNUAL CONVENTION
AMERICAN ASSOCIATION
OF PETROLEUM GEOLOGISTS
NEW ORLEANS
MARCH 24-27, 1985

November 12, 1984
MEMORANDUM

To: Affiliated Society Editors
From: AAPG Convention Department
Re: AAPG Annual Convention, March 24-27, 1984

The New Orleans Geological Society will host one of the largest and most productive meetings in AAPG history, March 24-27, 1985. Nearly 550 papers will be presented in oral and poster technical sessions in widely varied topics as detailed in the enclosed convention announcement. The announcement will be mailed to the AAPG members November 19.

As editor of your society, will you please publish the 1985 AAPG Annual Convention dates and location in your next available newsletter or include the description as follows?

Housing and Advance Registration is now open for the 1985 AAPG ANNUAL CONVENTION, to be held in New Orleans, Louisiana, March 24-27, 1985. The theme for the meeting is "Geologic Jambalaya." Approximately 550 papers will be presented in technical sessions. The annual meeting of AAPG's Division--SEPM, EMD, and DPA will be held in conjunction with the meeting.

Reservations must be made through AAPG on the official form available from AAPG, P. O. Box 979, Tulsa, Oklahoma 74101, 918/584-2555.

During the meeting, the services of an Employment Interviews Center will be available to facilitate arranging interviews between applicants and potential employers. If you are interested in this service contact: William Malin, Employment Interviews Chairman, Ensource Inc. 1515 Poydras Street, Suite 2440, New Orleans LA 70112, 504/525-6418.

The Hilton Hotel will be the headquarters hotel for AAPG and the Marriott Hotel for SEPM. The technical sessions, exhibits, and the headquarter's office will be at the New Orleans Convention Center.

A supply of convention announcements are being mailed to the society president for distribution at your upcoming meetings.

Your help and cooperation are sincerely appreciated.

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TO: MISSISSIPPI GEOLOGICAL SOCIETY MEMBERS,
ASSOCIATES, AND FRIENDS
FROM: THE REDBOOK COMMITTEE

Listed below are the proposed fields to be included in the present update of the society publication *Mesozoic and Paleozoic Producing Areas of Mississippi and Alabama*, also known as "The Redbook" to many individuals.

As most of you that have been involved in past updates know, this requires a great amount of time and effort both from the committee and from individuals or companies that are solicited for data, maps, logs, etc. If there are society members or others that have this information readily available, it would save much time and effort for the committee if you would contact the individual responsible for the particular field and volunteer this information to them.

The publication update is not limited to the following list. If an individual has interest in and can provide the committee with complete information necessary for publication, any new field, old field, or old field update, not previously published may also be included.

Let's make this a timely update and finish it before another fifty fields are discovered! Contact myself or any of the committee members if you have questions.

Sincerely,
Ron Tisdale
Redbook Committee Chairman

Field Name	County/State	Resp. Ind.	Field Name	County/State	Resp. Ind.
Armstrong Branch	Lamar Co., AL	SH	Maple Branch	Monroe Co., AL	SH
Ashwood	Wilkinson Co., MS	GH	Lower Mobile Bay	Offshore, AL	JD
Beaverton	Lamar Co., AL	GH	Magee	Simpson Co., MS	JF
Big Escambia	Escambia Co., AL	JD	McCracken Mtn.	Fayette Co., AL	GH
Blackjack Creek	Santa Rosa Co., AL	JD	McGee Lake/Star	Lamar Co., AL	DC
Blooming Grove	Fayette/Lamar Co., AL	SH	McRaney	Covington Co., MS	RT
Blowhorn/ N. Blowhorn Crk.	Lamar Co., AL	SH	Mechanicsburg	Yazoo Co., MS	RT
Bovina	Warren Co., MS	DH	Millport	Lamar Co., AL	DC
Carson	Jeff Davis Co., MS	JM	Morgantown Cmplx	Marion Co., MS	RT
Catahoula Creek	Hancock Co., MS	DH	Movico	Mobile Co., AL	JD
Chatom	Washington Co., AL	JD	Mt. Zion	Lamar Co., AL	DC
Coal Fire Creek	Pickens Co., AL	GH	Newman	Hinds Co., MS	RT
Columbia	Marion Co., MS	JM	Newsome	Marion Co., MS	RT
Dinan	Walthall Co., MS	GH	Oak Grove	Simpson Co., MS	RT
Fairview	Lamar Co., AL	GH	Oakridge	Warren Co., MS	RT
Fernbank	Lamar Co., AL	DC	Olive	Pike Co., MS	GH
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Glancy	Copiah Co., MS	RT	S. Prentiss	Jeff Davis Co., MS	RT
Greens Creek	Jeff Davis Co., MS	JM	W. Sandy Hook	Walthall Co., MS	JF
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January Meeting

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DR. DANIEL BUSCH -- Consultant, Tulsa, Oklahoma; PH.D., Ohio State University; Senior Research Geologist, Carter Oil Company, 1946-51; Manager, Exploration, Zephyr Petroleum Co., 1951-54; Consultant, 1955 to date. Vice President, AAPG, 1965-66; Distinguished Lecturer, AAPG, and elected to Honorary Membership in 1971. Visiting Professor, University of Oklahoma 1966-75. Consulting geological work in U.S., Mexico, South America, Europe, Africa, Middle and Far East. Author of AAPG Memoir, "Stratigraphic Traps in Sandstone-Exploration Techniques" and numerous papers on Petroleum Geology. Professor of Geology, Oil & Gas Consultants International, Inc. (OGCI), and International Petroleum Institute, Ltd. (IPI)

PLAN AHEAD!

Dr. Gerald M. Friedman

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April 9, 1985

Watch for Further Announcements

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Volume XXXII

No. 6

February, 1985

1984-1985



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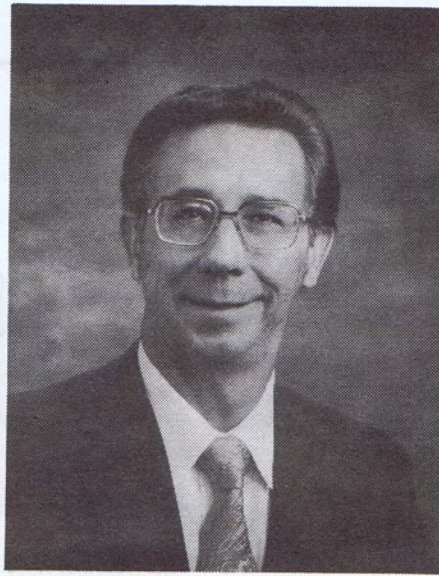
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Guest Speaker —
JOHN W. VINEYARD "BILL"

Bill Vineyard is a native Texan, born and raised in Dallas, Texas. He graduated from Texas A&M University with a degree in geological engineering. Bill was an exploration geologist with Amoco Production Co. for 11 years before forming his own company, Geological Consulting Services, Inc., whose primary business is to supply structure map coverage of the Mesozoic areas of the upper Gulf Coast to major companies and independents.

Bill is a member of the AAPG, SIPES, and APGS. He is also the CSD Chairman for Railroad Commission Districts 5 & 6, as well as a member of the Geological Societies in Houston, Shreveport, Tyler, Dallas, and Jackson.

The following list was compiled by H.A.S.
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ABSTRACT

“Current Activity Update On Mesozoic Trends”

The slide presentation will cover exploration activity of the Mesozoic areas of South Texas through the panhandle of Florida. There will be a breakdown of geologic province reviewing the most active plays in 1984, and a brief statistical study that will point out the most actively drilled formations.

The review will point out that exploration efforts are still predominantly directed toward shallow oil, with the hottest plays remaining the Rodessa-Pettit areas of East Texas and the Tuscaloosa Play in Mississippi. However, during the latter months of 1984 there have been several “rank wildcat” type plays developing. These plays will be highlighted along with a forecast of where exploration activity is headed in 1985.

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RE: GCAGS Awards and Nominations

Dear Kipp:

This letter is being written on behalf of the Awards and Nominations Committee of GCAGS and is addressed to you in your capacity as President of the Mississippi Geological Society. Our committee is charged with recommending to GCAGS not only candidates for awards from that organization but also candidates for office in AAPG and awards from it.

We solicit and would welcome recommendations from you and your society. To that end, I am enclosing copies of the guidelines for both GCAGS and for the relevant AAPG honors and awards. The next slate of candidates for AAPG office will be chosen in 1985 and will be made up of President-elect, Vice President, and Treasurer. In order to meet our committee's deadline of March 1, we will need your suggestions, together with a letter of recommendation for each, no later than that date.

There may be within your society persons deserving consideration for recognition at the regional or national level. We hope you will help us find them.

Very truly yours,

Lee H. Meltzer, Chairman
Awards and Nominations Committee

*This letter printed for your information.
Please contact Kipp Ferns if you know a member deserving an award.*

From the Editor . . .

Would you like to be a contributor to our montly Bulletin? I am always looking for new material to share with our members.

I'm sure you have noticed the different cover for this issue — we have changed printers and for this issue, and hopefully all issues in the future, we will use Kopy King.

Also, if you have any photos suitable for our cover subjects, please contact me.

Don Hudson
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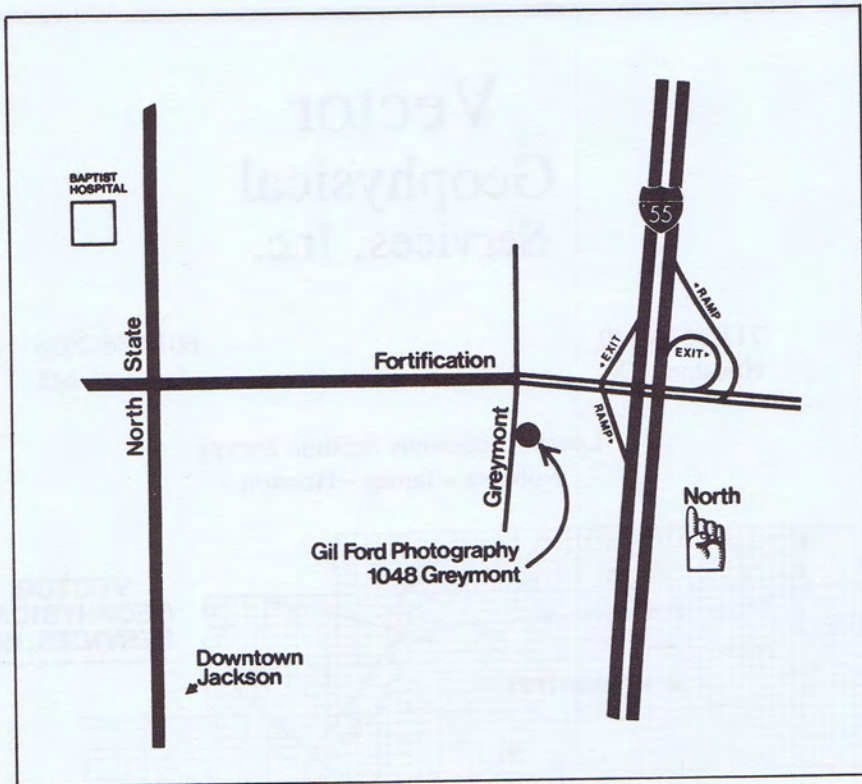
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- 2. If you live out of town or simply cannot make these photo sessions, then please send a 4" x 5" Black and White print to: Miss. Geological Society, P.O. Box 422, Jackson, MS 39205-0422. On the back of the photo or on an accompanying sheet of paper please print (or type) the following information: your name; company affiliation, position or title, company address, and company phone number; home address and home phone number; college(s) attended, major subject, degree(s) obtained; and spouse's name.**



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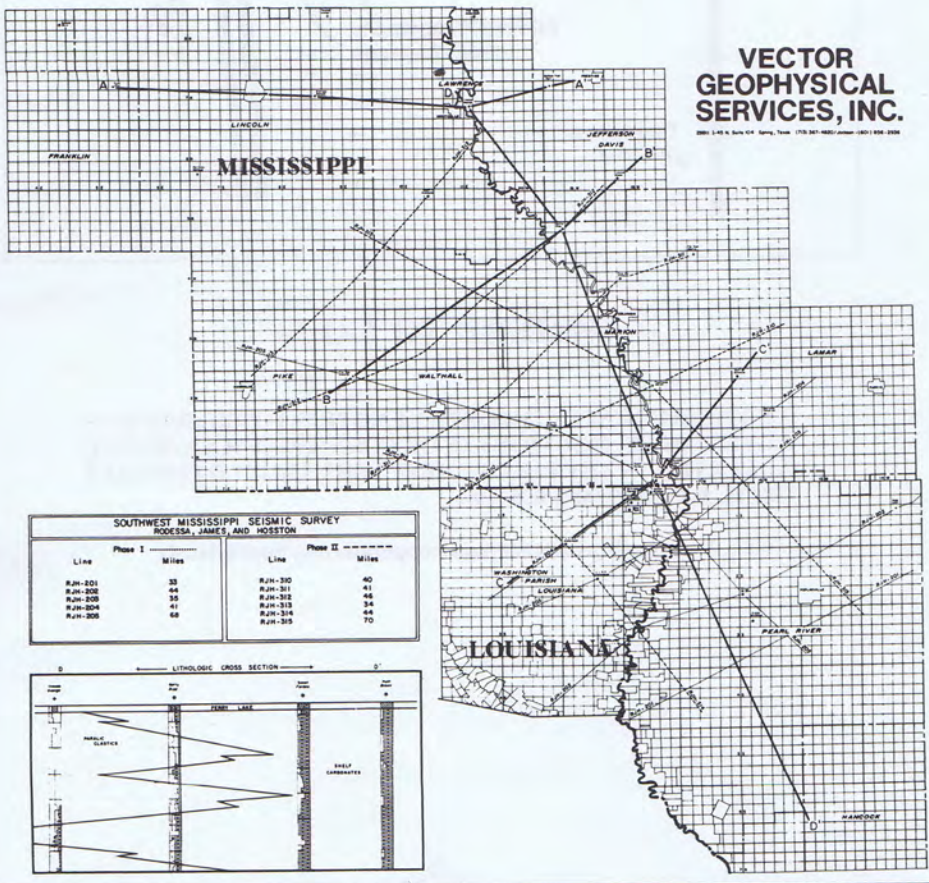
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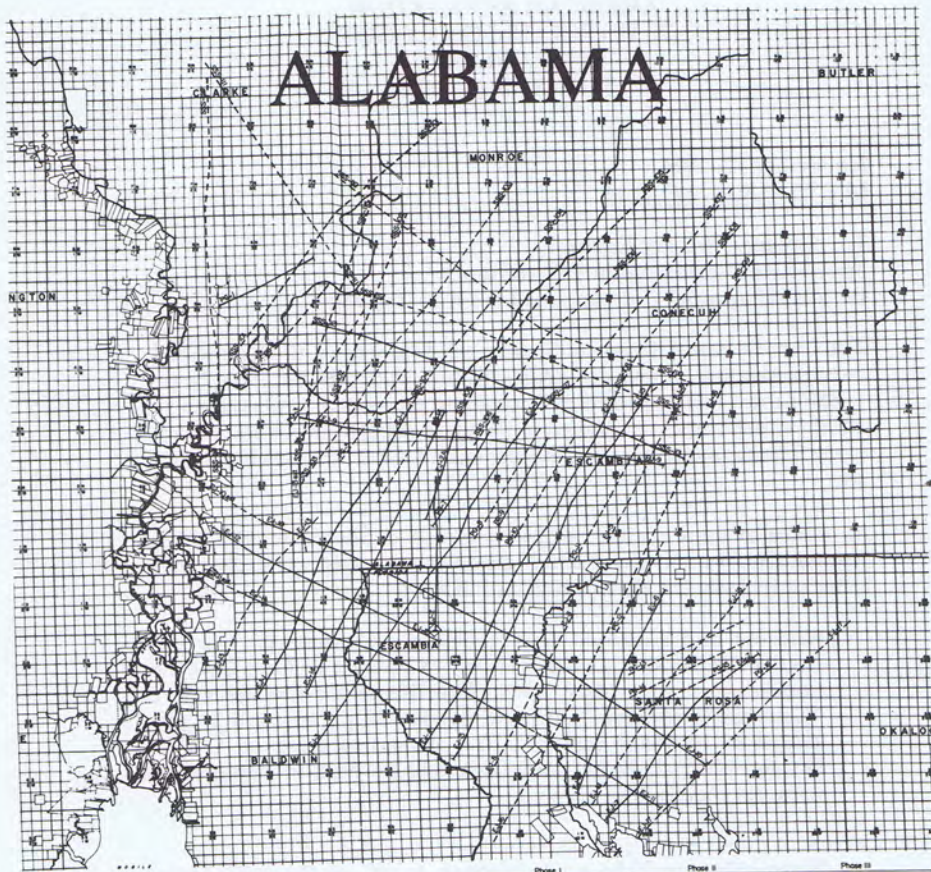
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ANNUAL CONVENTION
AMERICAN ASSOCIATION
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NEW ORLEANS
MARCH 24-27, 1985

November 12, 1984
MEMORANDUM

To: Affiliated Society Editors
From: AAPG Convention Department
Re: AAPG Annual Convention, March 24-27, 1984

The New Orleans Geological Society will host one of the largest and most productive meetings in AAPG history, March 24-27, 1985. Nearly 550 papers will be presented in oral and poster technical sessions in widely varied topics as detailed in the enclosed convention announcement. The announcement was mailed to the AAPG members November 19.

As editor of your society, will you please publish the 1985 AAPG Annual Convention dates and location in your next available newsletter or include the description as follows?

Housing and Advance Registration is now open for the 1985 AAPG ANNUAL CONVENTION, to be held in New Orleans, Louisiana, March 24-27, 1985. The theme for the meeting is "Geologic Jambalaya." Approximately 550 papers will be presented in technical sessions. The annual meeting of AAPG's Division--SEPM, EMD, and DPA will be held in conjunction with the meeting.

Reservations must be made through AAPG on the official form available from AAPG, P. O. Box 979, Tulsa, Oklahoma 74101, 918/584-2555.

During the meeting, the services of an Employment Interviews Center will be available to facilitate arranging interviews between applicants and potential employers. If you are interested in this service contact: William Malin, Employment Interviews Chairman, Ensource Inc. 1515 Poydras Street, Suite 2440, New Orleans LA 70112, 504/525-6418.

The Hilton Hotel will be the headquarters hotel for AAPG and the Marriott Hotel for SEPM. The technical sessions, exhibits, and the headquarter's office will be at the New Orleans Convention Center.

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**TO: MISSISSIPPI GEOLOGICAL SOCIETY MEMBERS,
ASSOCIATES, AND FRIENDS
FROM: THE REDBOOK COMMITTEE**

Listed below are the proposed fields to be included in the present update of the society publication *Mesozoic and Paleozoic Producing Areas of Mississippi and Alabama*, also known as "The Redbook" to many individuals.

As most of you that have been involved in past updates know, this requires a great amount of time and effort both from the committee and from individuals or companies that are solicited for data, maps, logs, etc. If there are society members or others that have this information readily available, it would save much time and effort for the committee if you would contact the individual responsible for the particular field and volunteer this information to them.

The publication update is not limited to the following list. If an individual has interest in and can provide the committee with complete information necessary for publication, any new field, old field, or old field update, not previously published may also be included.

Let's make this a timely update and finish it before another fifty fields are discovered! Contact myself or any of the committee members if you have questions.

Sincerely,
Ron Tisdale
Redbook Committee Chairman

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28-June 3, September 9-15,
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Leaders: Charles T. Siemers,
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PRESIDENT'S MESSAGE

The AAPG Convention is right around the corner, March 25-27, 1985. From the printed information I have received, it appears that there will be many interesting papers presented with most materials in our particular area of interest to be given on Wednesday, March 27. Hope to see you there.

Also while marking your calendar, a couple of other dates to remember. The GCAGS Convention on October 16-17, 1985, in Austin, Texas and between these two dates the most important date of all the MGS Spring Fling on May 24, 1985. Again this year, we are inviting the wives. T. C. Rader is already looking for door prizes.

The best plans always seem to be changing. We have word from Dr. Gerald Friedman that he will not be able to be with us in April. The Program Chairman, Neil Barnes is working to reschedule the Seminar in May. We will keep you posted on this.

Most of our members are aware that Ron Tisdale has moved to Birmingham, Alabama and is now working with ALAGASCO. The Executive Committee has decided that we will not have another special election since the earliest would be in April, and the general election will follow in May at the Spring Fling.

Ron has advised me that he is continuing to keep strings on the Red Book while trying to find one of our members to take over the responsibility.

Neil Barnes has scheduled a most interesting speaker for our March meeting. Dr. Claude G. Abry of Houston, Texas, will speak on "Using A Low-Cost Interactive Work Station To Explore For Stratigraphic and Combination Traps."

See you on the 12th.

Kip Ferns

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**Using A Low-Cost Interactive
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Guest Speaker

Claude G. Abry

Dr. Abry is a consulting geologist based in Houston, Texas. His activities are in onshore and offshore exploration projects involving well and seismic data. He is also developing computer programs to interface with commercial or proprietary data bases and facilitate the handling and display of exploration data.

His professional career includes 18 years of experience with Exxon, Union Oil of California, Gulf Oil and as an independent consultant.

Claude holds degrees from several French Universities and a Ph.D. in Geology from Stanford. He is an AAPG member and serves on the AAPG Computer Applications Committee.

**Using a Low-Cost Interactive Work Station To
Explore for Stratigraphic and Combination Traps**

by

Claude G. Abry, Abry & Associates, Incorporated
Houston, Texas

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Title: An Investigation Comparing Possible Magnetolectric and Diagenetic Magnetite Phenomenon Used in Hydrocarbon Exploration in Northeast New Mexico
- Authors: **Dr. Charles E. Barker**
Dr. Mark J. Pawlewicz
Affiliation: United States Geological Survey
Title: A Surface Vitritine Reflectance Anomaly Related to the Bell Creek Oil Field, Montana
- Author: **Dr. Anthony R. Barringer**
Affiliation: Barringer Resources, Inc.
Title: Multiple Correlation Geochemical Prospecting
- Author: **Professor David D. Blackwell**
Affiliation: Southern Methodist University
Title: Pitfalls and Practicality of using Heat Flow/Temperatures, Including Shallow Measurements, as a Reconnaissance or Early Stage Prospect Upgrading Methods
- Author: **Dr. William Duchscherer, Jr.**
Affiliation: Geochemical Surveys, Inc.
Title: The Relations of Organic Carbon and the Chemical Constituents of Soil to the Delta Carbonate Method of Hydrocarbon Prospecting
- Author: **Mr. Robert S. Foote**
Affiliation: Geoscience and Technology, Inc.
Title: Results of Horizontal Gradient Interpretation of Low-altitude Cesium Vapor Magnetometer Data Compared with Measurement of Rock Magnetic Susceptibility of Drill Cutting in the Vicinity of Oil and Gas Fields
- Author: **Mr. Ronald M. Herzfeld**
Affiliation: Independex, Inc.
Title: Innovative Directions of Magneto-electric Exploration
- Author: **Dr. Leo Horvitz**
Title: Hydrocarbon Geochemical Prospecting After Fifty Years

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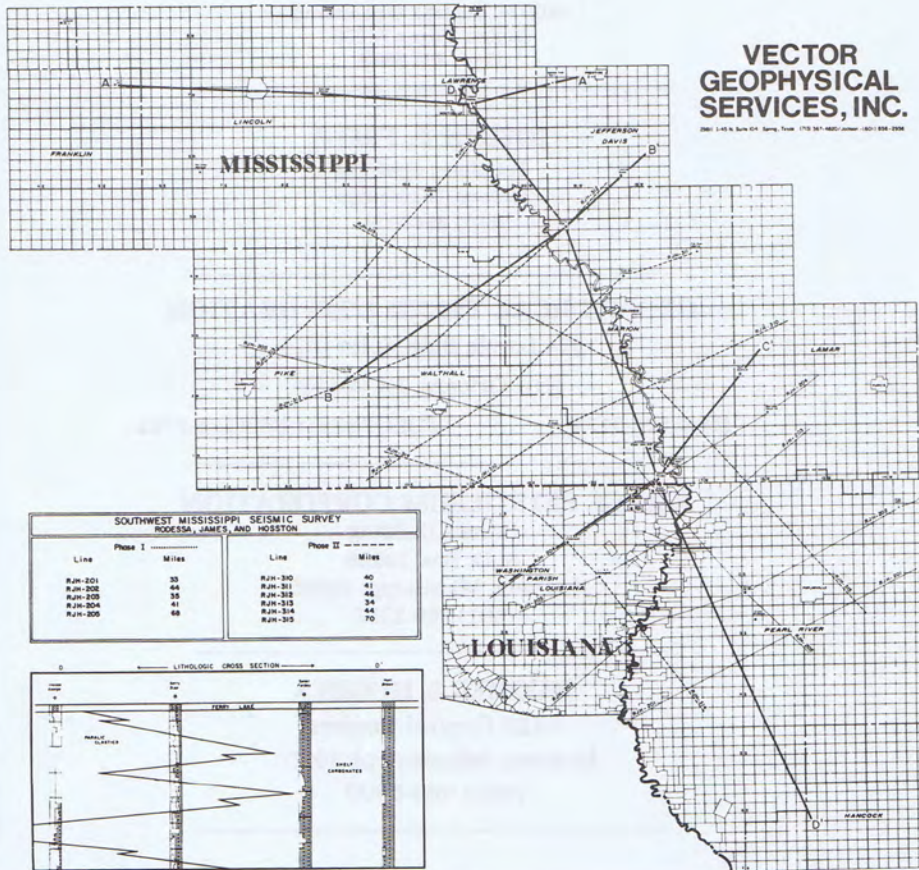
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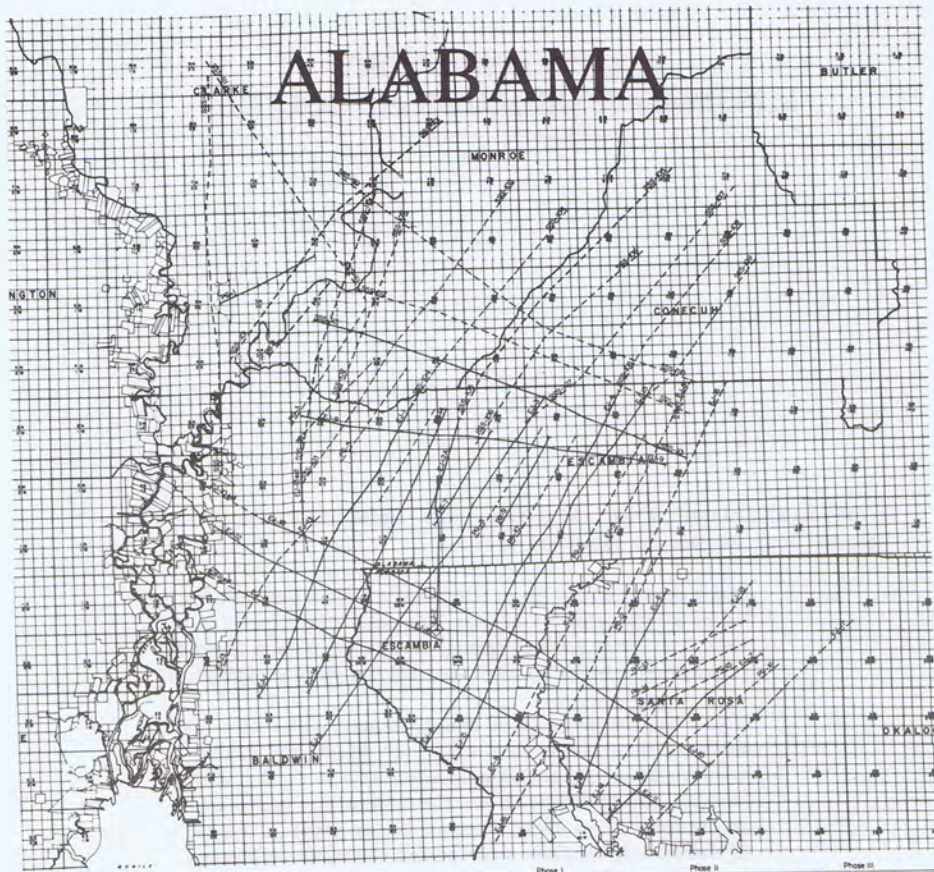
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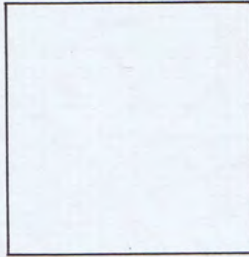
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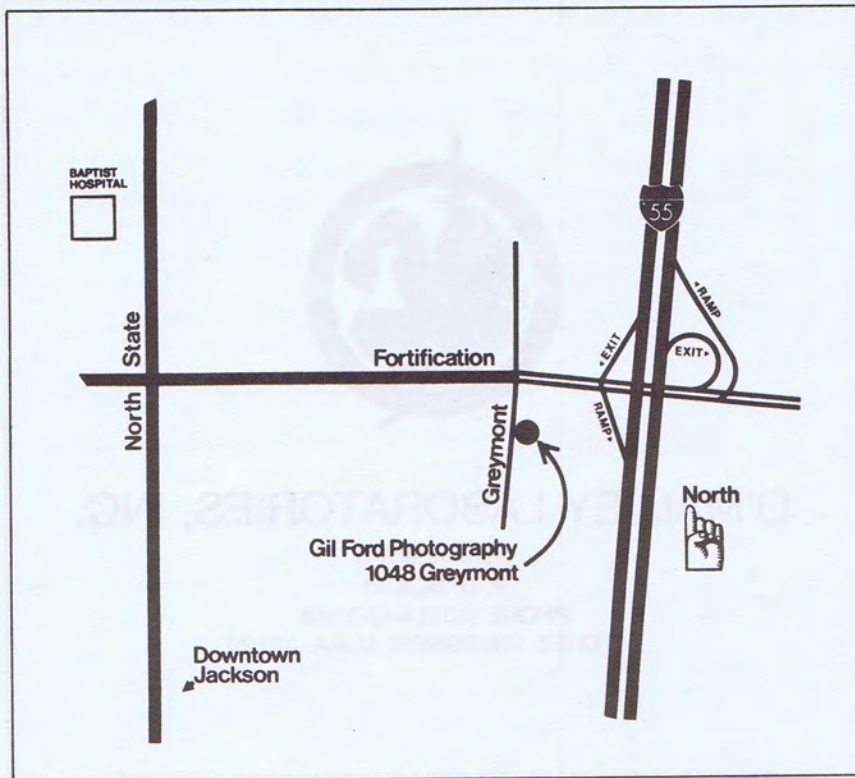
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**TO: MISSISSIPPI GEOLOGICAL SOCIETY MEMBERS,
ASSOCIATES, AND FRIENDS
FROM: THE REDBOOK COMMITTEE**

Listed below are the proposed fields to be included in the present update of the society publication *Mesozoic and Paleozoic Producing Areas of Mississippi and Alabama*, also known as "The Redbook" to many individuals.

As most of you that have been involved in past updates know, this requires a great amount of time and effort both from the committee and from individuals or companies that are solicited for data, maps, logs, etc. If there are society members or others that have this information readily available, it would save much time and effort for the committee if you would contact the individual responsible for the particular field and volunteer this information to them.

The publication update is not limited to the following list. If an individual has interest in and can provide the committee with complete information necessary for publication, any new field, old field, or old field update, not previously published may also be included.

Let's make this a timely update and finish it before another fifty fields are discovered! Contact myself or any of the committee members if you have questions.

Sincerely,
Ron Tisdale
Redbook Committee Chairman

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Big Escambia	Escambia Co., AL	JD	McCracken Mtn.	Fayette Co., AL	GH
Blackjack Creek	Santa Rosa Co., AL	JD	McGee Lake/Star	Lamar Co., AL	DC
Blooming Grove	Fayette/Lamar Co., AL	SH	McRaney	Covington Co., MS	RT
Blowhorn/ N. Blowhorn Crk.	Lamar Co., AL	SH	Mechanicsburg	Yazoo Co., MS	RT
Bovina	Warren Co., MS	DH	Millport	Lamar Co., AL	DC
Carson	Jeff Davis Co., MS	JM	Morgantown Cmplx	Marion Co., MS	RT
Catahoula Creek	Hancock Co., MS	DH	Movico	Mobile Co., AL	JD
Chatom	Washington Co., AL	JD	Mt. Zion	Lamar Co., AL	DC
Coal Fire Creek	Pickens Co., AL	GH	Newman	Hinds Co., MS	RT
Columbia	Marion Co., MS	JM	Newsome	Marion Co., MS	RT
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Volume XXXII

No. 8

April, 1985

1984-1985



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PRESIDENT'S MESSAGE

The Society needs your cooperation. In order for a project to be useful and meaningful it requires the cooperation of all members. This is not happening within our Photo Directory. So far only 185 of our 525 members (35%) have said they care about the Photo Directory. Please do not be a "no picture". George Harris has arranged with Gil Ford's Studio for members to drop by and have their pictures taken on any Tuesday or Thursday between the hours of 8:30 a.m. and 5:30 p.m. for the next few months. There is no excuse now for all members not to support this project.

The Executive Committee has voted again this year to contribute \$500.00 to the Mississippi Bureau of Geology Library for the purchase of books and other geological/geophysical related publications. I hope all members are aware of this extensive Library that the Bureau of Geology makes available to all. I encourage all members to make full use of the Library, and I know that Carolyn Woodley would be very happy to help you in any way. I direct your attention to a more detailed article in the Bulletin.

The date has been set, Dr. Gerald Friedman will be with us on May 16, 1985. Please mark your calendar and make plans now to attend. Are you interested in future seminars sponsored by the society? Neil Barnes is thinking about next year, so let him know your thoughts and recommendations for subjects and instructors.

The Executive Committee has initiated action toward the initial purchase, by the Society, of at least two "canned" educational programs. These are the slide/tape programs put together by AAPG and other educational institutions and organizations. See article page on page 10 and watch the Bulletin for further details.

Don't forget to mark your calendar for Tuesday the 24th of May for the MGS Spring Fling.

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LUNCHEON MEETING

**Tuesday, April 9, 1985
Capital City Petroleum Club**

SPEAKER:

**James L. Rice
Allen L. Greene
Phillip G. Gregory**

TOPIC:

**Smackover Exploration
& Development Drilling
Along the Conecuh Ridge,
Southwest Alabama**

**Meeting Charge – \$10.00 Per Person
(Includes Buffet and Speaker)**

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Guest Speakers

James L. Rice received his B.S. degree in geology from Indiana University in 1981. He has been employed by Texaco as a Geophysicist Interpreter for four years in their New Orleans office. Jim has had experience in seismic data acquisition, processing, and interpretation in both Mississippi - Alabama and south Louisiana. He is a member of SEG.

Allen L. Greene is a graduate of Millsaps College in Jackson, Mississippi. He received his B.S. degree in geology in 1980 and then began work for Texaco in New Orleans. His five years of both development and exploration experience as a Petroleum Geologist have been concentrated in Mississippi and Alabama. Al is a member of both AAPG and SEPM.

Phillip G. Gregory received both his B.S. and M.S. degrees in geology from Memphis State University in 1979 and 1981, respectively. He is currently a Petroleum Geologist with Texaco in New Orleans. During his four years with the company, he has worked as an exploration and development geologist in Mississippi and Alabama, as well as both north and south Louisiana. Phil is a member of AAPG.

ABSTRACT

Smackover Exploration and Development Drilling Along the Conecuh Ridge, Southwest Alabama

by

James L. Rice, Allen L. Greene, and Phillip G. Gregory
Texaco, Incorporated, New Orleans, Louisiana

Since 1980, fifty-five Smackover tests have been drilled along the Conecuh Ridge in southwest Alabama. Eleven of these wells have been oil completions with initial gauges averaging 406 BOPD. This represents an industry success rate of 20% and has resulted in the discovery of four new fields. Certain geological and geophysical factors, however, complicate both exploration and development drilling in this area.

Smackover sea level changes greatly influenced distribution of porous facies over and around pre-Jurassic basement highs. Based on their relationship with sea level, these basement islands and ridges can be subdivided into three types: 1) emergent, 2) semi-emergent, and 3) non-emergent. Porous facies are located on crests of non-emergent structures while they are limited to the flanks of semi-emergent and emergent features.

Huxford Field is an example of a semi-emergent feature. Sea level changes over this basement high during Smackover time were responsible for rapid facies changes seen across and around the structure. These fluctuations have further complicated the geology by creating a diagenetic history which must be unraveled.

SPRING FLING

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**May 24th
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A Short Course

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6:30 P.M. — 10:30 P.M.
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*Pre-Registration Form in this Bulletin

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Carbonate Reservoirs

INSTRUCTOR PROFILE

Dr. Gerald M. Friedman

Dr. Friedman - Professor of Geology, Rensselaer Polytechnic Institute since 1964, and consulting Geologist. B.Sc. and D.Sc. University of London; Ph.D., Columbia University. From 1956-64, Senior Research Scientist, Research Associate, and Research Supervisor, Amoco Production Co., Tulsa, Oklahoma. Editor, "Journal of Sedimentary Petrology", 1964-70. Chairman, Carbonate Rock Committee, AAPG, 1982-83. President, Society of Economic Paleontologists and Mineralogists (SEPM), 1974-75, elected to Honorary Membership, 1984; President, International Association of Sedimentologists (IAS), 1975-78, and elected to Honorary Membership, 1982. President, Sigma Gamma Epsilon, Honorary Earth-Science Fraternity, 1982-84. Nominated for Vice President of AAPG for 1984-85. Co-author of *Principles of Sedimentology* and *Laboratory Exercises in Sedimentology*. Co-author of textbook entitled *Exploration for Carbonate Petroleum Reservoirs*. Many publications on petroleum geology. Carbonate areas studied: MODERN — Bahamas, Bermuda, Florida, Red Sea, Great Barrier Reef (Australia), and Arabian Gulf; ANCIENT — Texas, New Mexico, Oklahoma, Western U.S.A., New York, and Canada. Instructor for Oil and Gas Consultants International, Inc. (OGCI) since 1968.

SLIDE-TAPES SERIES TO BE PURCHASED

The Mississippi Geological Society will purchase two AAPG slide-tape series. One will be **Carbonate Platforms and Petroleum Exploration Models** by Fred Read. The other will be **Depositional Models of Shelf and Shoreline Sandstones** by Thomas Moslow. Both of these series are a result of presentations done for the 1983 Fall Education Conference.

The Society can better serve its constituents by providing a "canned" slide/tape library of geologic topics of interest. The exact plans of how to best utilize them has not been set but it is possible that a scheduled viewing of them will be offered. Each series could be separated into three one hour segments which could be shown at a scheduled time at a location large enough to accommodate all who would like to attend.

In addition to this possible format, the series will be available for individual access. Exclusive access will be for society members for a limited time. Subsequently, the general geologic community may borrow them.

Look for logistical details in the next **Bulletin**.

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Donation Made to Bureau of Geology Library

The Executive Committee of the Mississippi Geological Society voted to donate \$500 to the Mississippi Bureau of Geology Library again this year. Last year the Society donation was used to purchase books and periodicals. The act of donation also served the very useful purpose of reminding us that the Bureau Library is available for industry geologists' use. The Librarian, Carolyn Woodley, reports an increase in industry usage of the facilities which is very gratifying.

As the plaque on the wall of the Bureau of Geology can attest, the petroleum industry has been supportive of the Bureau's function for a long time. The donation is made to continue that history of support and to help the Library keep current with the large volume of petroleum geology related publications. The donation is given as a supplement to state funding.

This year the donation will again be for books and periodicals. Carolyn has submitted a list of books she would like to add to the Library. Many of them are new releases, others are older but regularly requested. If you have any books or periodicals that you would like to see added to the Library, please let Carolyn know of them.

The publications to be added are listed below:

1. Cyclic Sedimentation - P. Duff and A. Hallman
2. Sedimentary Structures: Their Character and Basis - J. R. L. Allen
3. Eolian Sediments and Processes - M. E. Brookfield
4. Depositional Systems: A Genetic Approach to Sedimentary Geology - R. A. Davis
5. Terrigenous Clastic Depositional Systems: Applications in Petroleum, Coal, and Uranium Exploration - W. E. Galloway and D. K. Hobday
6. Computer Applications in Petroleum Geology - J. F. Robinson
7. Stratigraphy and Sedimentation, 2nd edition - W. C. Krumbein and L. L. Sloss
8. Geology of Petroleum - A. I. Levorsen
9. Principles of Sedimentary Basin analysis - A. Miall
10. Hypersaline Brines and Evaporitic Environments - A. Nissebaum
11. Journal - Geoscience Contents

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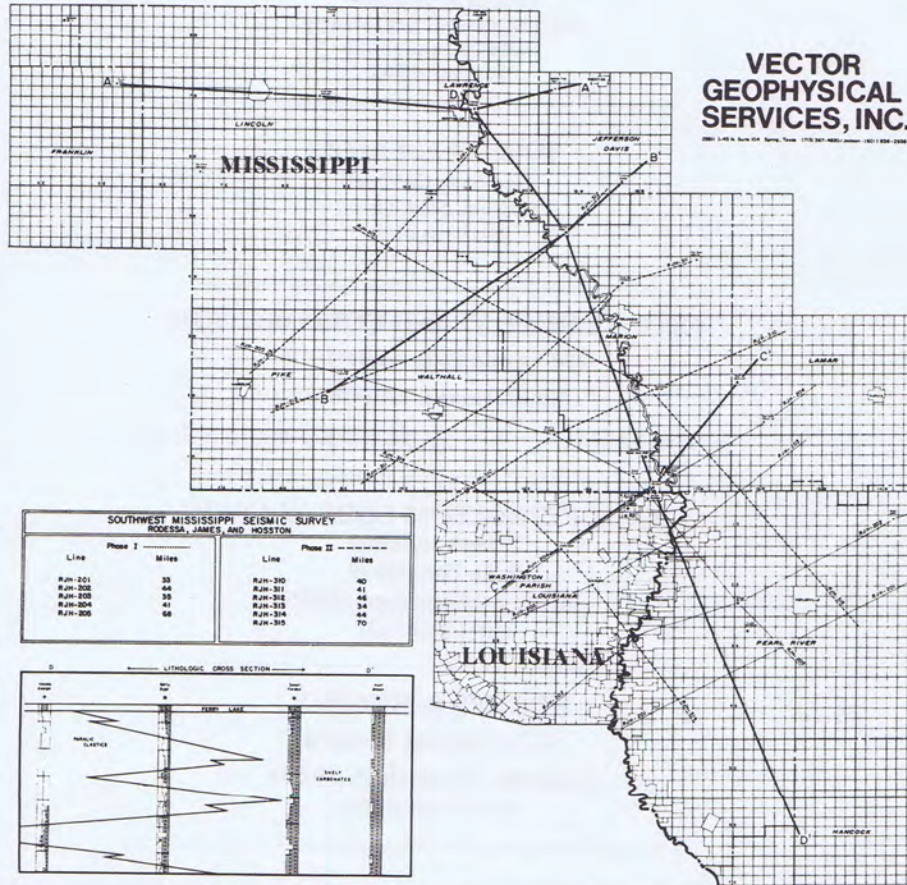
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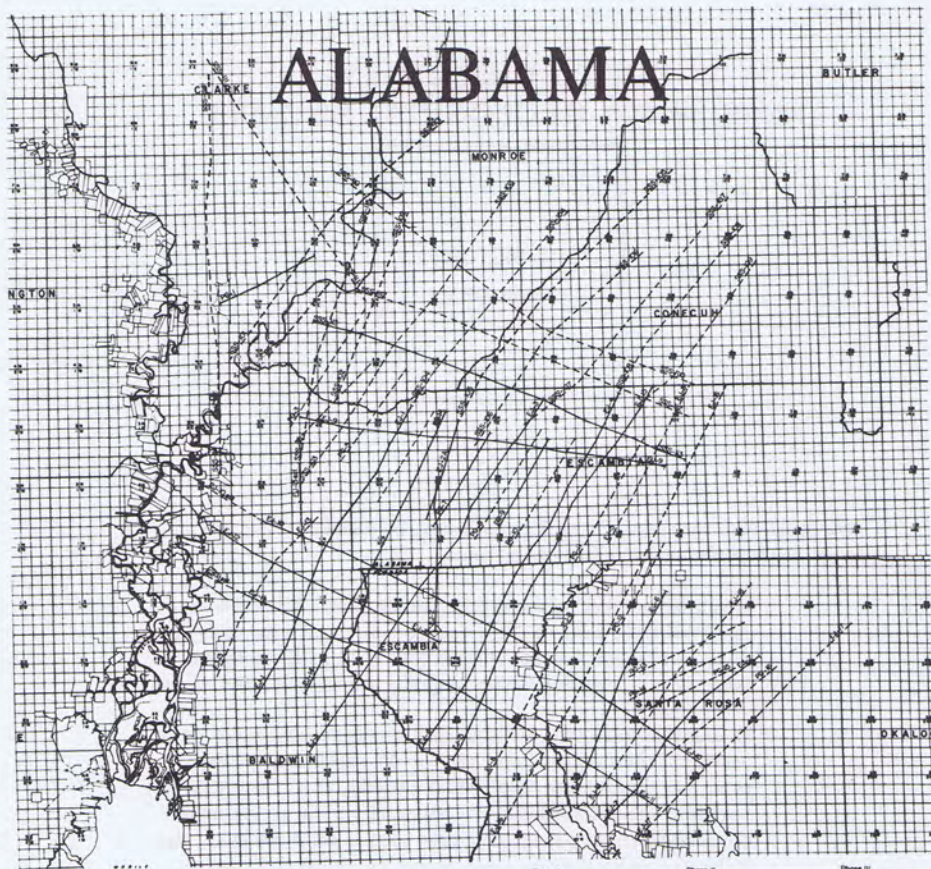
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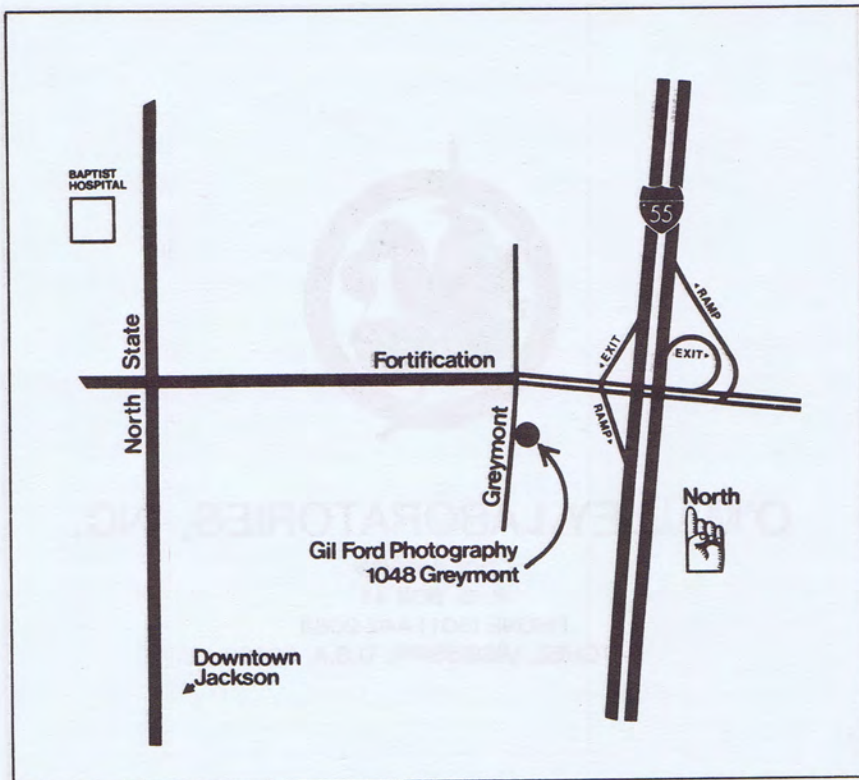
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*Answers next month

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Wilcox Fields of Southwest Mississippi, Maps and production data on 171 fields, in ring binder, 350 p, 1969	_____	28.00	_____
Mesozoic-Paleozoic Producing Areas of Mississippi and Alabama Volume I. Maps and producing data on 57 fields, with 2 composite logs, Clothbound, 139 p, 1957	_____	10.00	_____
Volume II, Maps and producing data on 77 fields, includes Supplement 1, 143 p., 1963	_____	15.00	_____
Supplements 2 through 7 for Volume II, Maps and producing data on 35 fields, 110 p, 1964-1972	_____	15.00	_____
Supplement 8 for Volume II, Maps and producing data on 34 fields, 108 p, 1980	_____	25.00	_____
Volume II complete with Supplements 1-8, Maps and producing data on 146 fields, in ring binder, 361 p.	_____	50.00	_____
FIELD TRIP GUIDEBOOKS			
Mississippian Rocks of the Black Warrior Basin Seventeenth Field Trip, 79 p, April, 1978	_____	8.00	_____
Tertiary Type Localities of East-Central Mississippi 25th Annual GCAGS Meeting, 133 p, October, 1975	_____	5.00	_____
The Paleozoics of Northwest Arkansas Sixteenth Field Trip, 48 p, May, 1962	_____	5.00	_____
Cenozoic of Horn Island and the Pascagoula Valley, Mississippi 10th Annual GCAGS Meeting, 24 p, October, 1960	_____	2.50	_____
Cenozoic of Southeast Mississippi and Southwest Alabama, Fifteenth Field Trip, 52 p, May, 1980	_____	6.00	_____
Upper Cretaceous Outcrops, Northeast Mississippi and West Central Alabama, Fourteenth Field Trip, 29 p, May 1959	_____	4.00	_____
COMPOSITE LOGS AND CROSS SECTIONS			
Composite Mesozoic Log of South Mississippi and South Alabama	_____	2.00	_____
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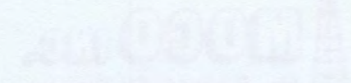
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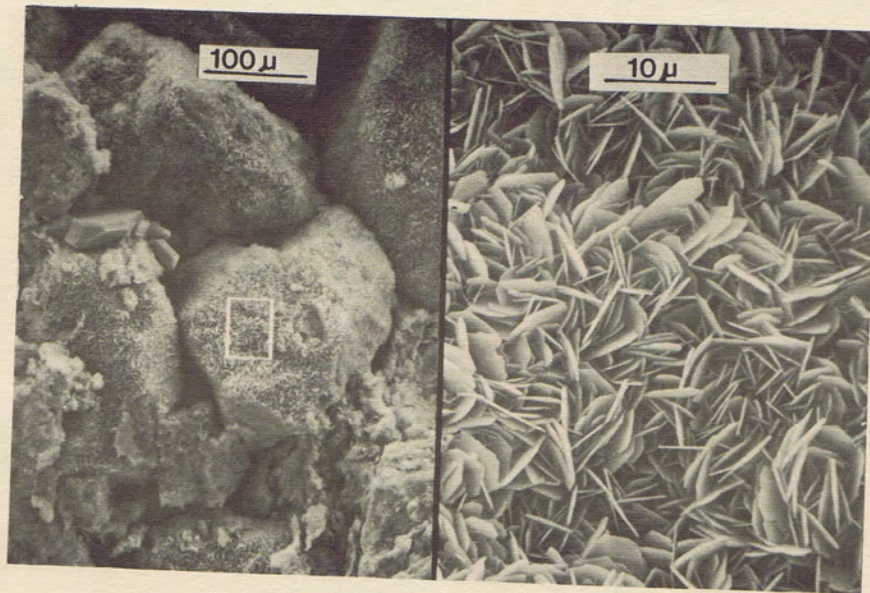


MISSISSIPPI GEOLOGICAL SOCIETY

Volume XXXII

No. 9

May, 1985



1984-1985



PRESIDENT'S MESSAGE

It is May already and a busy month for MGS. Our last regular noon meeting before the summer recess will be on the 14th. Dr. Friedman's Carbonate Seminar will follow on the 16th and to finish out in great style, the Spring Fling and the election of officers on the 24th. Mark your calendar now.

Refreshing your memory, we had our Blood Drive a few short months ago. It came out to be a tie between the Landmen Association and our Society. Since it was a tie, it was decided that each organization would donate \$250 to the Mississippi Heart Association. This was done the first part of April when Charlie Williams and I from our society and Ann Frazier from the Landmen Association presented checks to Hinds County Representative Ron Aldridge, Chairman of the Hinds County Heart Association, when our Blood Drive was held.

Speaking of Charlie Williams, it was both an educational and enlightening hour I spent with him in the State Capitol Building and to see the close relationship that Charlie has with our state senators and representatives. I know this is his job, but to see Charlie in action is ever so reassuring. Our industry is exceptionally well represented through the person of Charles Williams. A hearty thanks Charlie.

Please notice elsewhere in the Bulletin the selection of the Nominating Committee for election of officers for 1985-86. We will be voting at our Spring Fling May 24th.

For those of us who travel to Natchez, the Natchez Geological Society meets the third Thursday of each month at the Eola Hotel. Their next meeting is the 16th of May when Core Lab will present the program.

Current officers are:

President — A. T. Ricci, Germany Exploration

Vice President — Fredrick Kutzenmeyer,
Dlynn Braswell & Associates, Inc.

Secretary — George Haymans, Independent

Kipp Ferns

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Mississippi Geological Society

LUNCHEON MEETING

Tuesday, May 14, 1985

Capital City Petroleum Club

SPEAKER:

John R. Suter

TOPIC:

Trinity Shoal:

**A Reworked Deltaic Barrier
on Louisiana Continental Shelf**

**Meeting Charge — \$10.00 Per Person
(Includes Buffet and Speaker)**

**PLEASE NOTIFY T. C. RADER (969-3286)
OF YOUR ATTENDANCE SO
ADEQUATE SEATING CAN BE ARRANGED.**

Please call before Noon on May 13th



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Armando T. Ricci, Jr.
District Exploration Manager

P.O. Box 2031
Natchez, Mississippi 39120
(601) 442-1671

John R. Suter

Louisiana Geological Survey, Coastal Geology Program.

Education: 1976 - B.S. Chemistry, University of Texas, at Austin; 1977 - B.S. Geology, University of Texas, at Austin; 1980 - M.A. Geology, University of Texas, at Austin; 1985 - Ph.D. Geology, Louisiana State University (anticipated). **Experience:** 1981-82 - Research Geologist, USGS, Corpus Christi, Texas; 1982-83 - Research Geologist, USMMS, Corpus Christi, Texas; 1983-85 - Research Geologist, Louisiana Geological Survey, Baton Rouge, Louisiana. **Memberships:** AAPG, SEPM, International Association of Sedimentologists, Baton Rouge Geological Society. **Publications:** Numerous publications, technical reports, and maps relating to shoreline and continental shelf deposits of northwest Gulf of Mexico. Primary research involves detail investigation of the continental shelf and transgressive shorelines of Louisiana by high resolution seismic profiles and vibrocores. Co-taught AAPG short-course, "Shelf and Shoreline Sands: Northwest Gulf of Mexico." **Honors:** Best Session Award - Joint AAPG/SEPM Offshore Investigations Poster Session 1984 (with Shea Penland and Thomas Moslow.)

ABSTRACT

Trinity Shoal:

A Reworked Deltaic Barrier on Louisiana Continental Shelf

Abandonment and reworking of deltaic complexes of the Holocene Mississippi River have produced a series of sandy shoals on the muddy Louisiana continental shelf. Trinity shoal, one of these transgressive deposits, is located 30 km offshore of Atchafalaya Bay and the Point Au Fer-Marsh Island shell reefs. Approximately 1,000 km of high-resolution uniboom and 3.5 kHz subbottom-profile seismic data, taken in this area in 1983 and 1984, provide the data base for this study.

Trinity shoal, associated with the abandoned Maringouin delta complex, is a lunate shore-parallel feature approximately 36 km long and 5-10 km wide. Relief on the shoal ranges from 2 to 3 m, and minimum water depths over the shoal vary from -5 to -2 m. The shoal sand body is from 5 to 7 m thick and is composed largely of parallel to low angle clinoform reflectors. Several levels of buried fluvial channels, ranging in age from early Wisconsinian to Holocene, are associated with the shoal deposit. The occurrence of channel features within the shoal sand itself suggests the presence of tidal inlets, indicating a possible barrier-island origin for the shoal.

The underlying deltaic sediments reach approximately 15 m in thickness and are made up of low-angle clinoform reflectors dipping to the southwest. Distributary, bay-fill, estuarine, and buried oyster-reef deposits can be recognized, making these similar to modern Atchafalaya delta deposits. Continued progradation of the Atchafalaya delta will probably result in the burial of the Trinity shoal and maringouin delta deposits by fine-grained sediments, giving these shoal deposits a high-preservation potential and creating an excellent stratigraphic trap.

SPRING FLING

!!! Coming up !!!

May 24th
Fowler's Lodge
5:30 P.M.

Wives, dates, sweethearts invited

MARK YOUR CALENDAR
Mississippi Geological Society Presents
Dr. Gerald M. Friedman
Consultant
Troy, New York

Carbonate Reservoirs
A Short Course

May 16, 1985
6:30 P.M. — 10:30 P.M.
Millsaps College — Academic complex - room 215

Pre-Registration \$35.00* (\$40.00 at the door)
(Deadline to Pre-Register May 10, 1985)

Students/Faculty \$10.00

*Pre-Registration Form in this Bulletin

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Carbonate Reservoirs
May 16, 1985

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Carbonate Reservoirs

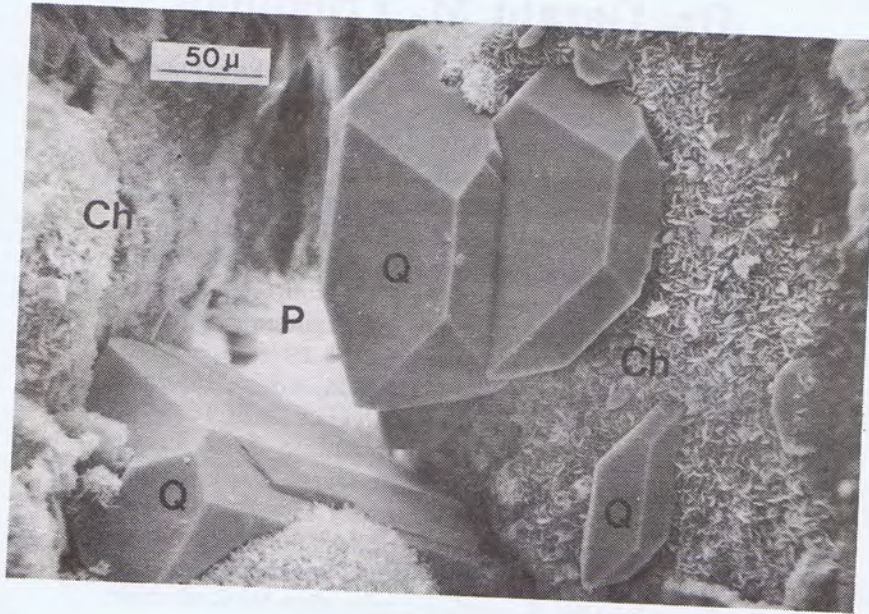
INSTRUCTOR PROFILE

Dr. Gerald M. Friedman

Dr. Friedman - Professor of Geology, Rensselaer Polytechnic Institute since 1964, and consulting Geologist. B.Sc. and D.Sc. University of London; Ph.D., Columbia University. From 1956-64, Senior Research Scientist, Research Associate, and Research Supervisor, Amoco Production Co., Tulsa, Oklahoma. Editor, "Journal of Sedimentary Petrology", 1964-70. Chairman, Carbonate Rock Committee, AAPG, 1982-83. President, Society of Economic Paleontologists and Mineralogists (SEPM), 1974-75, elected to Honorary Membership, 1984; President, International Association of Sedimentologists (IAS), 1975-78, and elected to Honorary Membership, 1982. President, Sigma Gamma Epsilon, Honorary Earth-Science Fraternity, 1982-84. Nominated for Vice President of AAPG for 1984-85. Co-author of *Principles of Sedimentology and Laboratory Exercises in Sedimentology*. Co-author of textbook entitled *Exploration for Carbonate Petroleum Reservoirs*. Many publications on petroleum geology. Carbonate areas studied: MODERN — Bahamas, Bermuda, Florida, Red Sea, Great Barrier Reef (Australia), and Arabian Gulf; ANCIENT — Texas, New Mexico, Oklahoma, Western U.S.A., New York, and Canada. Instructor for Oil and Gas Consultants International, Inc. (OGCI) since 1968.

Our Cover Photo:

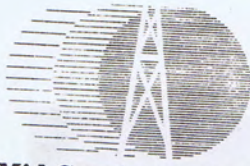
Tuscaloosa Sandstone - Split-image SEM photomicrograph illustrating pervasive, grain-coating chlorite. Low-magnification (left side) shows intergranular porosity (P) among framework grains. Right side (boxed area of left side) shows that authigenic chlorite is pervasive and lines intergranular porosity. Pore-lining chlorite can cause severe resistivity suppression in the Tuscaloosa Sandstone. Formation damage can occur due to precipitation of insoluble ferric hydroxide gels if strong, unsequestered hydrochloric (HCl) acid is used during completion. (Photomicrograph by Core Laboratories, Inc. - Lafayette)



Tuscaloosa Sandstone - Authigenic chlorite (Ch) lines this intergranular pore (P). Quartz overgrowths (Q) cause some porosity reduction. Petrographic evidence indicates that grain-coating chlorite clay precipitated prior to development of quartz overgrowths. The presence of chlorite grain-coatings is interpreted to have inhibited the development of pervasive quartz overgrowths, thereby preserving porosity. Pervasive grain-coating chlorite of this nature can suppress resistivity log responses by increasing conductivity of the formation. (Photomicrograph by Core Laboratories, Inc. Lafayette)



Tuscaloosa Sandstone - Authigenic (secondary) chlorite (Ch) and kaolinite (K) clays have precipitated in this pore. Chlorite has a grain-coating clay morphology, whereas the "stacked booklets" of kaolinite are pore-filling. Chlorite and kaolinite can cause suppression of resistivity logs. Insoluble ferric hydroxide precipitates may form if the chlorite is contacted with strong, unsequestered hydrochloric (HCl) acid, thereby causing formation damage. Kaolinite is loosely attached to framework grains and may be dislodged during drilling or well completion. If the kaolinite is dislodged, it can migrate and plug narrow pore throats. (Photomicrograph by Core Laboratories, Inc. - Lafayette)



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Mississippi/Alabama Division

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Charles H. Williams, Jr.
President

March 19, 1985

Mr. C. Kipp Ferns
ANR Production Company
111 Capital Building, Suite 400
Jackson, Mississippi 39201

Dr. Mr. President:

The Nominating Committee consisting of Charles Williams, Chairman, David Cate, Jerry Zoble, Dee Layman and John Marble have duly met and recommended the attached slate of candidates for 1985-86 year.

We are proud to inform you that the selections were unanimously approved and that each candidate has dutifully agreed to stand for election.

Yours truly,

Charles H. Williams, Jr.
CHWJr:kba

Enclosure

cc: Members of Nominating Committee with enclosure

PRESIDENT

Steve Walkinshaw

Academic Training:
Millsaps College, B.S.

Experience:

Forest, 1980-81
Hughes-Eastern, 1981-present

Professional Affiliations:
Mississippi Geological Society
AAPG

Professional Activities:

GCACS/Exhibits Committee Chairman,
1983

MGS Treasurer, 1982-83

MGS Secretary, 1982-84



Michael (Mike) K. Frazier

Academic Training:
University of Florida, B.S.
University of Florida, M.S.

Experience:

State of Mississippi, 1978-81
Grace Petroleum Corp., 1981-83
P & F Expl. LTD 1982-present

Professional Affiliations:
Mississippi Geological Society
AAPG

Professional Activities:

GCAGS Cross Country Run Committee
Chairman, 1983



FIRST VICE-PRESIDENT

J. R. (Bob) White

Academic Training:

University of Alabama, B.S.
University of Alabama, M.S.

Experience:

Amoco, 1976-78
Hunt Energy Co., 1978-80
Browning & Welch, 1980-82
Independent, 1982-present

Professional Affiliations:

Mississippi Geological Society
Society of Professional Well Log Analysts

Professional Activities:

MGS Projectionist, 1982-83
MGS Treasurer, 1983-84



C. W. (Neil) Barnes

Academic Training:

Louisiana State University, B.S.

Experience:

Texaco, 1978-82
ANR, 1982-present

Professional Affiliations:

Mississippi Geological Society
AAPG
SEPM

Professional Activities:

MGS Program Director, 1982-84
MGS Program Director, 1983-85
New Orleans Geological Society School
Information Committee Chairman
1980-81 & 1981-82



SECOND VICE-PRESIDENT

Julian C. Cooley

Academic Training:

Florida State University, B.S.

University of Southern Mississippi, M.S.

Experience:

Gulf Oil Corp. 1977-80

Cities Service Corp. 1980-82

Pruet Oil, 1982-present

Professional Affiliations:

Mississippi Geological Society

Jackson Geophysical Society

AAPG

SEPM

Society of Professional Well Log Analysts



Jerry M. Drake

Academic Training:

West Virginia University, B.S.

West Virginia University, M.S.

Experience:

Chevron Oil Co., 1970-73

Columbia Gas Trans. Corp. 1973-74

Texas Oil & Gas Corp. 1974-83

Independent 1983-present

Professional Affiliations:

Mississippi Geological Society

Mississippi Association of

Petroleum Landmen

AAPG

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SECRETARY

Michael (Mike) D. Clearman

Academic Training:

Mississippi State University, B.S.

Experience:

Placid Oil Company, 1980-present

Professional Affiliations:

Mississippi Geological Society

AAPG

Jackson Geophysical Society



Rick L. Ericksen

Academic Training:

Northern Illinois University, B.S.

Northern University, M.S.

Experience:

Chevron, 1974-76

Skelly (Getty) 1976-78

Pruet 1978-83

TXO 1983-present

Professional Affiliations:

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Jackson Geophysical Society

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TREASURER

Stanley King

Academic Training:

Millsaps College, B.A.

Mississippi State University, B.S.

Experience:

Mississippi Oil & Gas Board, 1979-80

TXO Production Corp., 1980-83

Independent, 1983-present

Professional Affiliations:

Mississippi Geological Society

AAPG



Stan Thieling

Academic Training:

Macalester College, B.A.

University of Iowa, M.S.

Experience:

Texaco (New Orleans) 1973-77

Florida Gas Expl. Co., 1977-81

TXO Production Corp., 1981-83

Energy Three, Inc., 1983-present

Professional Affiliations:

Mississippi Geological Society

AAPG

New Orleans Geological Society



Education Calendar

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Exploration Methods

Prospect Evaluation
Sept. 17-20, London
Techniques of Petroleum
Exploration I
Sept. 16-19,
South Padre Island, Texas

GENERAL

Practical Management Techniques
for Geologists
April 15-17, Dallas
Sept. 18-20, London

Geochemistry

Petroleum Formation and
Occurrence
Sept. 23-25, Rueil, France

Geophysics

Correlation of Borehole and
Surface Seismic Results
April 22-24, Houston

Seismic Prospecting
Sept. 9-12, San Francisco

Stratigraphic Interpretation of
Seismic Data

May 13-17, Washington, D.C.
Nov. 11-15, Houston

Petrophysics/Development

Fractured Reservoir Analysis
Aug. 5-9, Great Falls, Mont.

Petroleum Reservoir Fundamentals
Sept. 16-20,
South Padre Island, Texas

Well Log Analysis for Geologists
June 24-28, San Diego

Sedimentology/Paleontology

Carbonate Exploration
June 17-21, Austin, Texas

Deep Water Clastics

April 29-May 3

Santa Barbara, Calif.

Sandstone Diagenesis

June 24-28, San Diego

Structure

Sedimentation and Tectonics:
Basin Evolution, Sedimentary
Systems and Petroleum
Exploration

July 29-Aug. 2

Banff, Alberta, Canada

Structural Geology

Aug. 12-16, 13-17, Park City, Utah

FIELD SEMINARS

Carbonate

Ancient Carbonate Rock Sequences
May 5-11, Oct. 6-12, Texas

Florida-Bahamas Modern

Carbonates

June 9-16, Sept. 22-29

Florida/Bahamas

Paleozoic Carbonate Continental
Margin: Facies Transitions,
Depositional Processes and
Exploration Models — The Basin
and Range Province
Sept. 14-21, Utah

Upper Paleozoic Depositional and
Diagenetic Facies: Exploration
Models in a Mature Petroleum
Province
April 14-20, Texas

Sandstone

Ancient Clastics
April 21-26, Oct. 27-Nov. 1
Kentucky

Cretaceous Transgressive-
Regressive Cycles in Utah
May 13-19, Sept. 9-15
Utah

Fluvial Systems: Their Economic
and Field Applications
Sept. 9-13, Utah

Modern and Ancient Clastic
Depositional Systems
May 24-June 7, July 26-Aug. 9
Texas

Modern Clastic Depositional
Environments
April 28-May 4, May 28-June 3,
Sept. 9-15, South Carolina

Modern Clastic Depositional
Systems of Alaska
July 17-24, Alaska

Modern Deltas
Aug. 19-23, 26-30, Louisiana
Tectonics and Sedimentation of
Turbidites in California
May 13-17, Sept. 14-22, California
Petroleum Geology, Tectonics and
Sediments of the French Pyrenees
and Associated Aquitaine Basin
June 30-July 8, France

Wave-Dominated Delta and
Associated Depositional Systems:
Clastic Models for Hydrocarbon
Exploration
June 8-16, Sept. 7-14, Utah

Stratigraphy

Paleozoic Stratigraphy and
Appalachian Basin Exploration
Trends
May 17-24, Virginia

Structure

Georoots
July 8-16, Scotland
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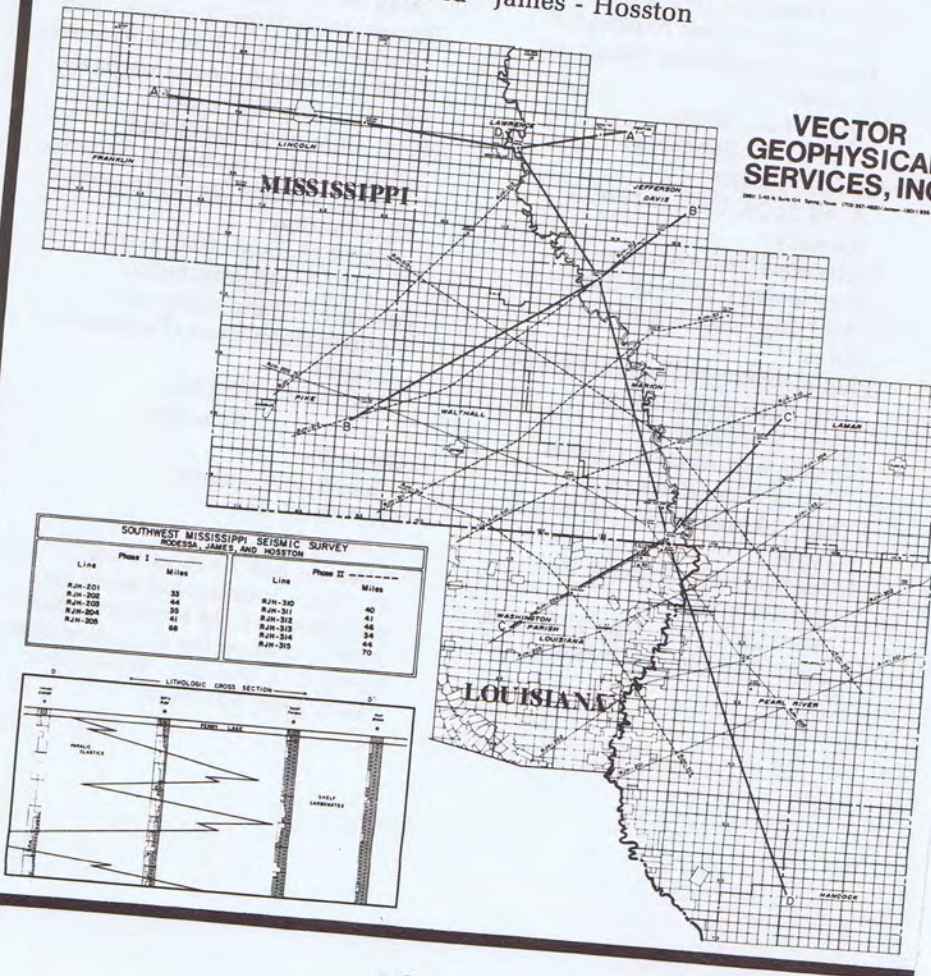
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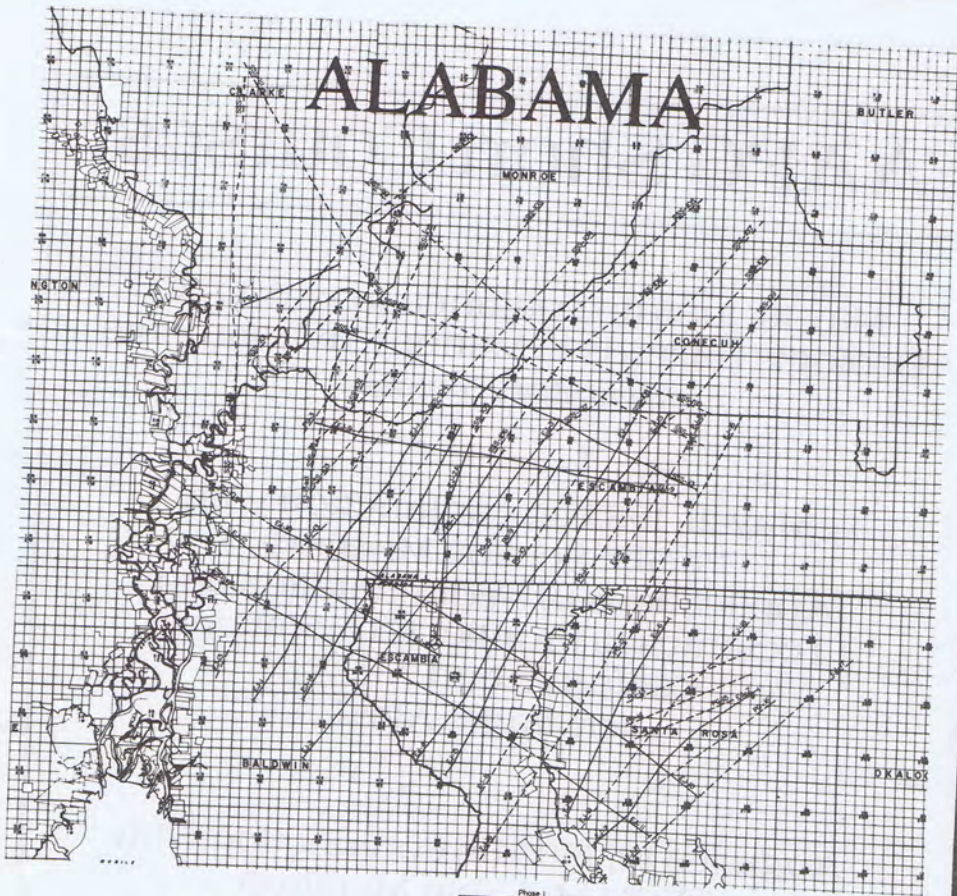
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For further information, call Linda Cornell at 982-6229 (a.m.) or 982-3457 (p.m.), or Lawrence R. Baria at 352-5562.

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- These rules are required so as to allow every interested individual or group access to the slide-tape series. Your cooperation will be greatly appreciated.

1985-86 CONTINUING EDUCATION

Below is a questionnaire to be distributed and returned at the May 14 luncheon. It is presented here in hopes that (1) any additional desirable topics can be added prior to its distribution, and (2) so members who are unable to attend the luncheon can participate by sending in this questionnaire with their preferences.

If you would like topics added to this list or will be unable to attend the luncheon, please send your response to Neil Barnes, c/o ANR Production Company, 111 Capitol Building, Suite 400, Jackson, Mississippi 39201.

1985-86 Continuing Education Seminar Questionnaire

Continuing Education Seminars were approved by the executive committee for 1984-85. The two seminars contracted are a **direct** result of the outcome of a survey similar to this done last year. The purpose of these seminars is to add to the technical knowledge of the membership and guests. It is desirable that as many people be so benefited as possible. Remember - you can't complain if you don't vote!

Please list suggested speakers you would like to hear.

1. Carbonate Depositional Environments
2. Carbonate Diagenetic Processes
3. Clastic Depositional Environments
4. Geophysical and Geological Coordination in Oil and Gas Prospecting
5. Hands on Core Workshop - Carbonates
6. Hands on Core Workshop - Clastics
7. Business Slide of Oil and Gas
8. Identifying and Managing Exploration Risks

Please indicate your estimated likelihood of attending an evening seminar. (The schedule would be approximately 6:30 p.m. - 9:30 p.m. for one evening.)

The possibility that I would attend is:

NONE SLIGHT GOOD EXCELLENT

Please be prepared to submit the basic questions you would like answered by the instructor. This will serve as a guide to him in preparing this presentation as well as insure a useful seminar for you individually.

— —

Would you be interested in participating in a three or four day field trip to classic clastic outcrops in eastern Kentucky or a survey of the Black Warrior Basin? A one day point bar field trip?

Do you have any other field trip suggestions?

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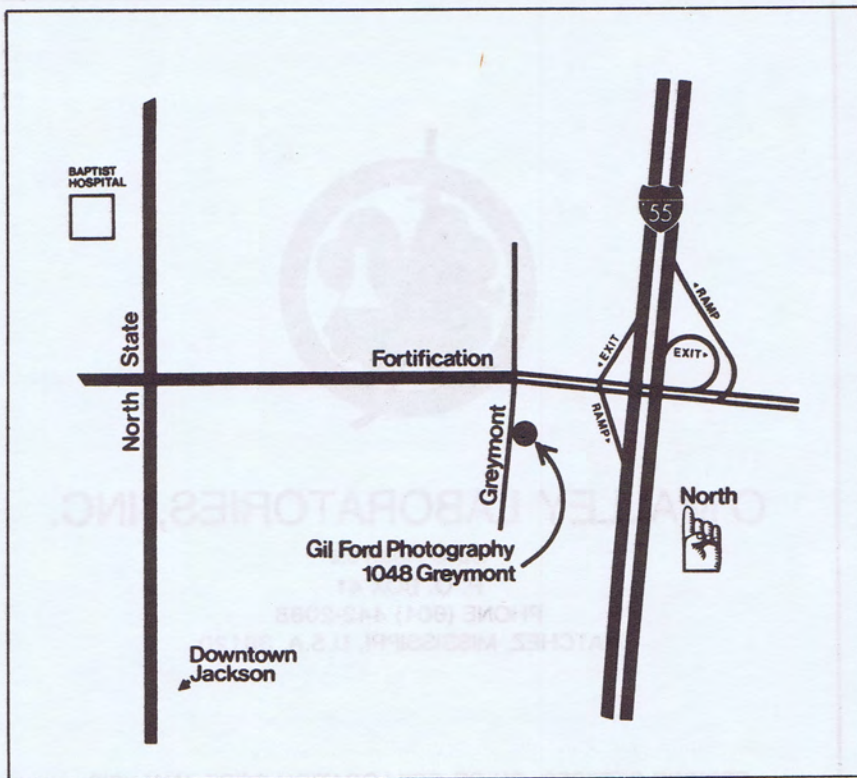
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1. Don't be left out — go to Gill Ford's studio between the hours of 8:30 a.m. - 5:30 p.m., Tuesday and Thursday, at 1048 Greymont Avenue (phone 353-9675). Please identify yourself as a MGS member and fill out information sheet.
2. If you live out of town or simply cannot make these photo sessions, then please send a 4" x 5" Black and White print to: Mississippi Geological Society, P. O. Box 422, Jackson, MS 39205-0422. On the back of the photo or on an accompanying sheet of paper please print (or type) the following information: your name; company affiliation, position or title, company address, and company phone number; home address and home phone number; college(s) attended, major subject, degree(s) obtained; and spouse's name.

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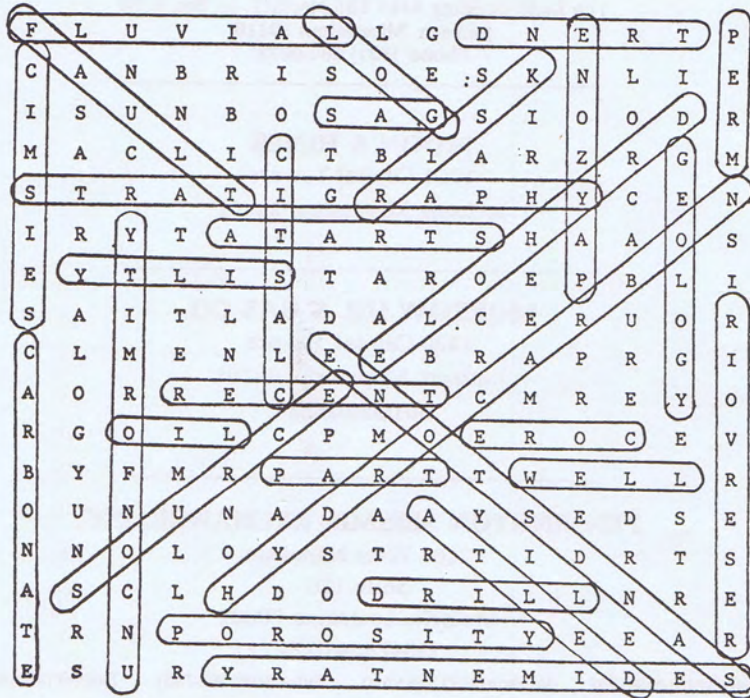
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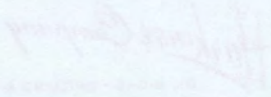


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