

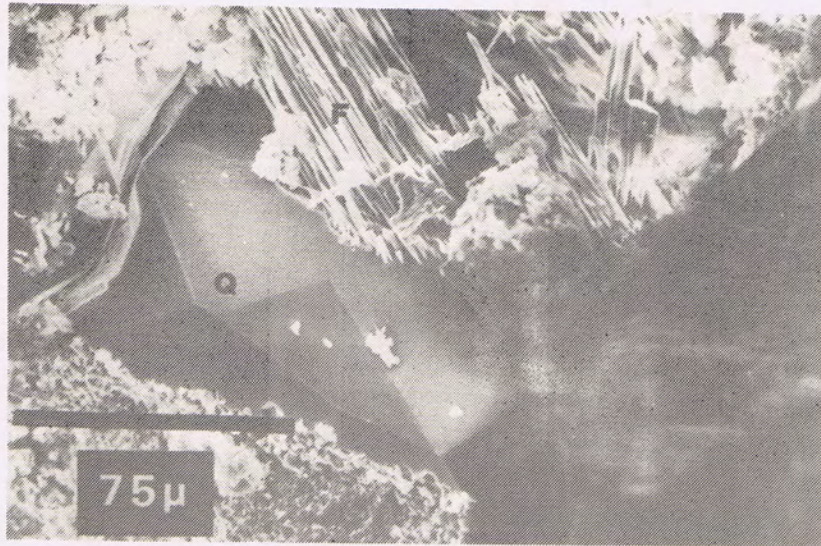


MISSISSIPPI GEOLOGICAL SOCIETY

Volume XXXVI

No. 11

September 1988



1988-89

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1988-89**

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COVER:

Scanning Electron Microscope (SEM) Photograph of a Resorbed Feldspar Grain (F) surrounded by Chlorite and Quartz overgrowths (Q), from lower Tuscaloosa Formation, Amite County, Mississippi. PHOTO: DOUGLAS KLICMAN, HATTIESBURG, MISSISSIPPI.

PRESIDENT'S MESSAGE

As summer now wanes, the activities of your Society will get into full swing. On September 13th, our first noon luncheon of the new year will be held in the Smackover Room at the Capital City Petroleum Club. Our speaker on that day will be Robert Mink of the Alabama Geological Survey, who will speak on the onshore and offshore Miocene trend. Then on September 16, we will gather at Fowler's lodge for our annual Fall Barbeque. I realize that this date conflicts with the Confederate Invitational in Natchez, but the scheduling could not be adjusted. T.C. and his famous barbeque will be on hand, as will plenty of refreshments and a good time waiting to be had by all.

In my column last issue I mentioned the establishment of a Society historian. To date there has been some favorable response to the idea, complete with volunteers not only to recall 'the good old days', but also to assist in the compilation of the Society's history. GCAGS has requested that each society elect or appoint a historian, presumably to contribute to a history of the Association. If you feel led to contribute to a compilation of your Society's history, or to head up the group doing so, please contact me.

In another matter of great importance to our Society, I urge each of you to make a concerted effort to scout around and find those geologists around you who are not members of our Society and SIGN THEM UP! Some still in our profession who were once a member are no longer due to neglect, apathy, or forgetfulness (and yes, perhaps unemployment). Some never have joined. Some may not even be aware of the Society and its endeavours. Sponsor them and sign them up — membership forms are found in this bulletin. It is not my desire to recruit new members simply to increase our numbers — nickels and noses is not my cup of tea — but my desire is for more comprehensive dissemination of geological knowledge, for greater stimulation of interest in geology, and an enhanced social and professional fellowship among our members — indeed the very purposes for the existence of our Society.

Stanley King



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Mississippi Geological Society

NOON MEETING

TUESDAY, SEPTEMBER 13, 1988

Smackover Room, Petroleum Club

SPEAKER: Robert M. Mink

TOPIC: REGIONAL GEOLOGIC FRAMEWORK AND PETROLEUM
GEOLOGY OF MIOCENE STRATA OF ALABAMA
COASTAL WATERS AREA AND ADJACENT
FEDERAL WATERS AREA

Please notify T. C. Rader (969-3286) of your
attendance so adequate seating can be arranged.



REGIONAL GEOLOGIC FRAMEWORK AND PETROLEUM
GEOLOGY OF MIOCENE STRATA OF ALABAMA
COASTAL WATERS AREA AND ADJACENT
FEDERAL WATERS AREA

By

Robert M. Mink, Charles C. Smith,
Bennett L. Bearden, and Ernest A. Mancini

ABSTRACT

To date, 46 Miocene gas fields have been established in the Alabama coastal waters and adjacent Federal Outer Continental Shelf (OCS) waters areas. These fields have produced over 144 billion cubic feet of natural gas. Evaluation of the available geological, geophysical, paleontological and engineering data provides for the establishment of a regional geologic framework and a better understanding of the petroleum geology and the hydrocarbon potential of the Miocene strata in this area.

The *Amphistegina* "B", *Cristellaria* "1", *Globorotalia barisanensis*, *Cibicides carstensi*, *Bigenerina* "B"/*Discorbis* "12", and *Bigenerina* "A" Biohorizons have been defined and are used to recognize the *Globorotalia barisanensis*, *Cibicides carstensi*, *Discorbis* "12", and *Bigenerina* "A" Interval-zones. These biohorizons and interval-zones provide a basis for establishing a biostratigraphic framework, which is important to understanding the petroleum geology of the Alabama coastal waters and adjacent Federal waters areas.

Three Miocene hydrocarbon trends have been delineated in the study area. The Miocene shallow gas trend contains proven production from sandstones of the *Cibicides carstensi* Interval-zone (Amos sand) and the *Discorbis* "12" Interval-zone (Meyer, Escambia, and Luce sands) in the onshore Alabama area, most of the Alabama State waters area and part of the Mobile Area. These reservoirs range in depth from 1,100 to 2,500 feet and have produced over 16.2 billion cubic feet of natural gas. There is no proven production from the Miocene intermediate gas trend, which includes most of the Mobile Area and the northern portion of the Viosca Knoll (north) Area. However, sandstones in the *Discorbis* "12" Interval-zone between 2,500 and 4,000 feet have excellent potential for natural gas. One hundred and twenty-six billion cubic feet of natural gas has been produced from sandstones in the Miocene gas and oil trend, which encompasses the southern half of the Viosca Knoll (north) Area and the Chandeleur Area. The majority of this production has come from reservoirs in the *Discorbis* "12" Interval-zone from below 4,000 feet.

Petroleum traps in all three hydrocarbon trends are combination traps involving sandstone porosity and permeability pinchouts against regional dip. Subtle closure and anticlinal nosing trends are a secondary factor in many of the traps. Reservoirs are most commonly transitional marine to middle neritic marine bars, which can be associated with deltas. The hydrocarbon type is predominantly biogenic natural gas. The primary means of exploring for these shallow natural gas reservoirs is evaluation of relative amplitude seismic data.

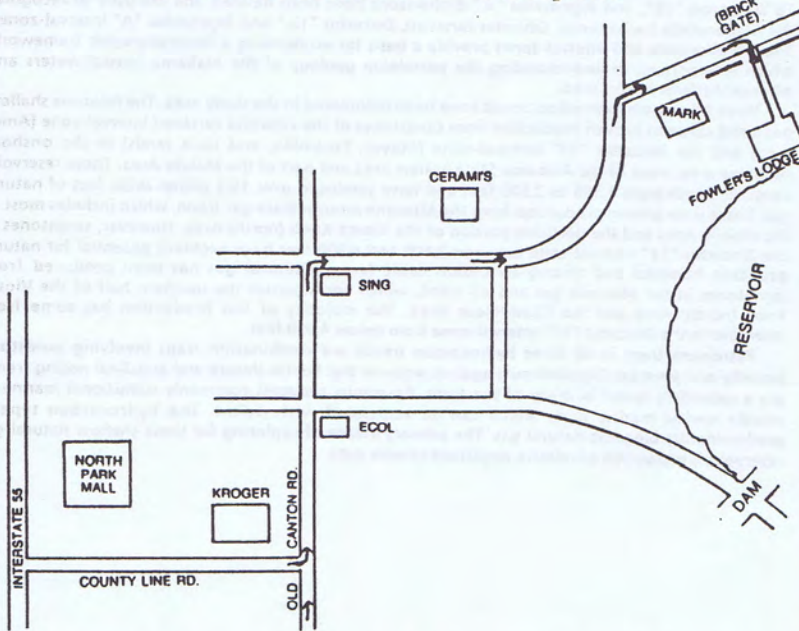
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Mississippi Geological Society

FALL BARBEQUE

FRIDAY, SEPTEMBER 16
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FESTIVITIES START — 4:30 p.m.
SUPPER SERVED — 6:30 p.m.



Please phone T. C. Rader at 969-3286 with your reservations.

John Franklin Carll was born in Bushwick, New York, now a part of Brooklyn. He received a liberal education at Union Hill Academy in Jamaica, Long Island, and later studied civil engineering.

Carll has been called the father of petroleum engineering and a pioneer in petroleum geology.

Carll was a farmer, a civil engineer, editor of the *Morning Eagle* in Newark, New Jersey, and later a wire manufacturer. After the accidental death of his wife and two children and the destruction of his factory by fire in 1864, he was attracted to the oil regions. In 1866, he went to Nacogdoches, Texas, with about \$5000 worth of machinery. As the representative of the Brown Brothers of Titusville, he helped Lynis T. Barret drill for oil. But, in 1867, his clients ordered his return because of a drastic drop in oil prices.

Carll was the first man to describe, in written form, problems involving the assembly of accurate drilling data. He performed crude experiments in capillary attraction and, in the 1870's, pointed out possible benefits of water flooding. He outlined various phases and aspects of what are today recognized as the fundamentals of petroleum engineering and collected on a large scale the first organized well records for correlation purposes. He was an inventor of many early oil field tools and an innovator in drilling techniques; he was the first to suggest and promote unit operations and the first to predict formation thinning; he headed a committee to study direction and dip of oil sands. He carefully observed rock strata and wrote exhaustive, complete treatises on geology of oil formations and the phenomena of oil and gas production.

In the famous Second Pennsylvania Geological Survey he wrote about tools and equipment used in the first 20 years of oil well drilling, describing, with his own illustrations, drilling techniques and casing, tubing, and various tools. He was a faithful and accurate chronicler of early production methods.

Carll was the father of reservoir engineering and pioneered water, gas, and air injection to stimulate oil wells. In 1880 he made the earliest estimates of porosity in oil sands. His work was the first organized research in petroleum production.

NOON LUNCH SCHEDULE

1988

September 13

October 11

November 8

December 13

1989

January 10

February 14

March 14

April 11

May 9

Luncheon meetings will begin at 11:30 a.m.
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Among the great wildcatters, no man can be said to stand above John Henry Galey. His parents had migrated from Ireland with the Mellons of Pittsburgh and settled in Parker, Pa.

Galey was a teacher at 16. He became interested in oil on the very day the Drake well came in. Before he was 21 he had brought in the most famous gusher of its day — the "Maple Shade" well near Pleasantville. His later successes with William Hartley in the famous "Island Queen" and "Island King" wells on Stump Creek Island and the "Annie Lee" at Foxburg stimulated development in the Butler, Armstrong, and Clarion areas.

By the 1870's Galey was a partner in the largest operating firm in the country and a developer of the Butler, McKean, and Bradford Fields. By 1880, when he became associated with Colonel James M. Guffey, Galey was recognized as "the greatest and most aggressive oil operator in the country."

He was a student of oil sands and suggested the practical application of the anticlinal theory to George Westinghouse and Israel C. White, the men who surveyed locations of many anticlines in West Virginia for Guffey and Galey.

Galey drilled the first two wells at Coalinga, discovered the Neodesha Field in Kansas, drilled the first commercial oil wells in Texas at Corsicana, drilled the first wells at Muskogee and Red Fork in Oklahoma, and, after persuading the Mellons to finance Guffey and Galey's backing of Captain Lucas at Spindletop, staked the location for the great Lucas Gusher. He told reporters the Lucas Gusher was the "beginning of the liquid fuel age."

Galey was a gentle, considerate man of moderate habits. While a central figure in the mining boom at Tombstone, he befriended Wyatt Earp, the Clantons, Buffalo Bill, and Pawnee Bill.

His discoveries helped found the Forest Oil Company, Sinclair Oil and Gas Company, Magnolia Petroleum, Barnsdall, and the Gulf Oil Corporation.

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GCAGS FINANCIAL AID TO STUDENTS PROGRAM

FINANCIAL AID PROGRAM:

The Gulf Coast Association of Geological Societies is sponsoring a program of financial aid for students pursuing research in the geosciences (geology, geochemistry, geophysics, geohydrology, etc). This program is designed to encourage research in aspects of the geosciences related to energy and minerals in the Gulf Coast region and to provide financial aid to worthy students. Students doing studies that have some relevance to the energy/minerals industries are eligible to apply for support of up to \$1,000.00 per project. Research projects that qualify for consideration include graduate-level thesis or dissertation projects for the Master's or Doctorate degrees or special studies involving individual supervision at the undergraduate level (such as a Bachelor's honors project). Applicants are expected to complete the projects within one year of the date when proposals are funded. Applicants must be enrolled in a program leading to a degree in the geosciences at a college or university within the region of the Gulf Coast Section of the AAPG (GCAGS).

PROCEDURE FOR APPLICANTS:

A proposal outlining the research project, confined to two typewritten pages and accompanied by an estimated budget of the expenses for which financial aid is requested, must be prepared by the applicant. Requests for support should not exceed \$1,000.00 although the itemized budget for the project may indicate a greater expenditure. Each proposal should include a statement of how the research project relates to an aspect of the energy/mineral industries. Also required is a letter of endorsement from the project supervisor. This letter should provide documentation of the qualifications of the student requesting project support as well as a realistic timetable including the estimated date of project completion.

OBLIGATION OF THE STUDENT AND SUPERVISOR:

The students receiving support are urged to submit their results to the GCAGS in, manuscript form for review and presentation at the Annual Convention and for consideration for publication in the GCAGS Transactions. The manuscript of project results should be sent to the Program Chairman for review and consideration at the next Annual Convention (as defined by the deadlines for each Convention) following the project completion. These manuscripts will follow the same review procedures as other papers processed for the technical sessions. Submission does not obligate the GCAGS to accept the manuscript, either for oral presentation at the Annual Convention or for publication in the GCAGS Transactions.

PROCEDURES FOR REVIEW OF PROJECTS PROPOSALS:

Proposals are to be submitted to the Chairman of the Financial-Aid-to-Students Committee of GCAGS. New proposals will be reviewed once a year, with a deadline of March 21, 1989 for receipt of proposals. A Committee appointed by the President will review the proposals. Applicants will be informed of the Committee decisions the month following the deadline date for application reviews. Decisions will be based on the quality of the proposal, qualifications of the applicant, and funds available to GCAGS for this program. Partial funding of proposals will be considered by the Committee when available funds require this consideration.

Address all inquiries and project proposals to: Mr. R. W. Boebel
2503 Canal Place One
365 Canal Street
New Orleans, LA 70130

(From AAPG EXPLORER)

Florida Registration Forms Will Be Available in Mid-May

Applications for registering to be eligible to practice as a geologist in Florida will be available in mid-May, according to AAPG member George Freeland, member of the Florida Board of Professional Geologists.

Under the grandfather clause of the bill, passed last October, geologists applying for registration prior to October 1, 1988, can be licensed without testing, providing the individual can meet the requirements set by the board.

While the requirements vary according to the amount of higher education completed and the circumstances of previous work, generally the requirements include a degree with a major in geology (or other earth science majors the board deems appropriate), five to seven years of experience and payment of fees.

License fees are still to be officially set, but the proposed fee schedule is a \$100 application fee and a \$50 initial license fee with a subsequent \$100 biennial certificate renewal fee. After October 1, an exam will be required along with an additional \$150 testing fee.

The bill also includes provisions for a Certificate of Authorization to be issued under certain circumstances to firms, corporations and partnerships.

Freeland said the Florida law allows for the recognition of geologists licensed by other states with similar requirements upon payment of fees.

For further information, or to receive the application form upon availability, contact the Department of Professional Regulation, 130 N. Monroe St., Tallahassee, Fla. 32399-0750.



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NEWS RELEASE

The Arkansas State Board of Registration for Professional Geologists has announced that any geologist working within the State, in the public sector, after July 1, 1988, is subject to the "Registration of Geologists Act of 1987." Those applicable geologists shall be required to have a Certificate of Registration or a Temporary Certificate indicating registration application.

The "Grandfather Clause" for registration without examination is effective until May 1989. Geologists with necessary qualifications who wish to apply for registration without taking a written examination should write to the Board for application forms not later than May 1, 1989.

Requests for forms and information should be made to:

Secretary
Arkansas State Board of Registration
for Professional Geologists
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SPECIAL VOLUMES

1. Mississippi Geological Society Photo Directory, 1981 \$ 2.00
2. Wilcox Fields of Southwest Mississippi, Maps and production data on 171 fields, in ring binder, 350 pp., 1969 28.00
Mesozoic-Paleozoic Producing Ares of Mississippi and Alabama.
3. Volume I. Maps and producing data on 57 fields, with 2 composite logs, clothbound, 139 pp., 1957 10.00
4. Volume II. Maps and producing data on 77 fields, includes Supplement 1, in ring binder, 143 pp., 1963 15.00
5. Supplements 2 through 7 for Volume II, Maps and producing data on 35 fields, 110 pp. 15.00
6. Supplement 8 for Volume II, Maps and producing data on 34 fields, 108 pp., 1980 25.00
7. Volume II, complete with Supplements 2-8, 361 pp., 146 fields 50.00
- ★ 8. Volume III, 85 pp., 46 fields, 1987 50.00

FIELD TRIP GUIDEBOOKS

9. Upper Cretaceous Outcrops, Northeast Mississippi and West Central Alabama, Fourteenth Field Trip, 29 pp., May, 1959 4.00
10. Cenozoic of Southeast Mississippi and Southwest Alabama, Fifteenth Field Trip, 52 pp., May, 1960 6.00
11. Cenozoic of Horn Island and the Pascagoula Valley, 10th Annual GCAGS Meeting, 24 pp., October, 1960 2.50
12. The Paleozoics of Northwest Arkansas, Sixteenth Field Trip, 48 pp., May, 1962 5.00
13. Tertiary Type Localities of East-Central Mississippi, 25th GCAGS Meeting, 133 pp., October, 1975 5.00
14. Mississippi Rocks of the Black Warrior Basin, Seventeenth Field Trip, 79 pp., April, 1978 8.00
15. Tertiary and Upper Cretaceous Depositional Environments, Central Mississippi and West Central Alabama, 33rd Annual GCAGS Meeting, 40 pp., October, 1983 7.50

COMPOSITE LOGS AND CROSS-SECTIONS

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1987	"GEOLOGY OF CATARACT CANYON AND VICINITY," Tenth Field Conference, 199 p. (hardbound)	\$35.00
1984	"FIELD TRIP GUIDEBOOK," Thirty-seventh Annual Meeting, Rocky Mountain Section GSA, 209 p. (softbound)	\$15.00
1983	"OIL AND GAS FIELDS OF THE FOUR CORNERS AREA," VOLUME III, Field papers include geologic setting, discovery well, drilling and completion practices and reservoir data along with a structure map and a typical wireline well log. Designed to complement Volumes I and II, 95 field papers, 415 p. (ring binder, looseleaf)	\$55.00
1979	"PERMIANLAND," Ninth Field Conference, 186 p. (hardbound)	\$25.00
1978	"OIL AND GAS FIELDS OF THE FOUR CORNERS AREA," VOLUME I and II 242 field papers, 726 p. (ring binders, looseleaf)	\$85.00
1976	"GEOLOGIC MAP OF THE GRAND CANYON," (in color), 42" x 58", folded, Copyright, 1976	\$8.00
1975	"CANYONLANDS COUNTRY," Eighth Field Conference, 288 p. (hardbound)	\$25.00
1974	"GEOLOGY OF THE CANYONS OF THE SAN JUAN RIVER," 94 p. (softbound)	\$5.00
1973	"CRETACEOUS AND TERTIARY ROCKS OF THE SOUTHERN COLORADO PLATEAU," 281 p. (available in microfiche ONLY)	\$10.00
1971	"GEOLOGY OF CANYONLANDS AND CATARACT CANYON," Sixth Field Conference, 89 p. (softbound)	\$6.00
1969	"GEOLOGY AND NATURAL HISTORY OF THE GRAND CANYON REGION," Fifth Field Conference, Powell Centennial River Expedition, 212 p. (available in microfiche ONLY)	\$5.00
1963	"SHELF CARBONATES OF THE PARADOX BASIN," 273 p. (available in microfiche ONLY)	\$5.00

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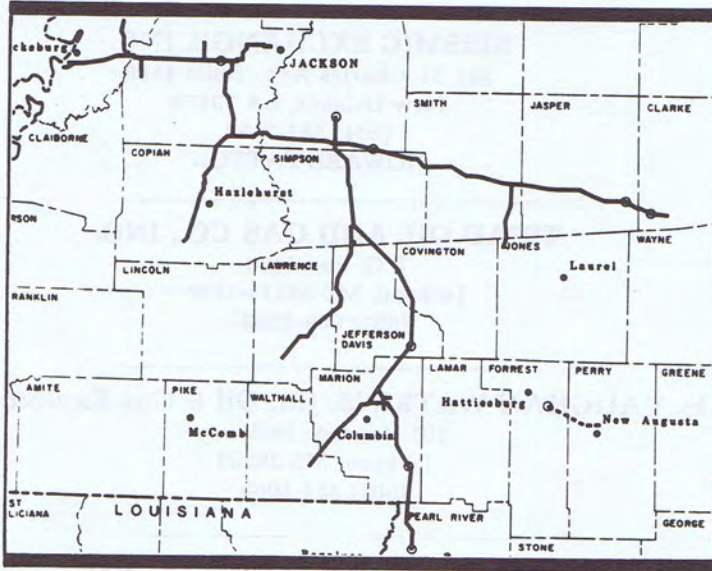
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Volume XXXVII

No. 2

October 1988



1988-89

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COVER:

Dune crossbedding, Padre Island Texas. This photograph is of a naturally occurring exposure of near-vertical wall in the fore-island dunes. The bedding has been etched or "sand blasted", revealing the crossbedded internal structure of the dunes.

PRESIDENT'S MESSAGE

Another month has passed and our intrepid and industrious Editor has informed me that it is time for more timely words from yours truly. If you don't believe that time flies, try writing a monthly message!

Our fall barbeque is now history-- and yes, the lights finally did come back on. Downed power lines always make for an interesting evening. And once again, T.C. worked his magic with the food. Thanks to T.C. and his helpers for the good food, and thanks to our contributors as well.

G.C.A.G.S. Convention is coming up in New Orleans on October 19-21. I assume your plans are made if you are planning to attend. It appears some interesting papers will be presented in addition to all the other associated activities. We will be afforded a preview of one of the talks at our next noon luncheon to be held at 11:30 AM in the Smackover Room on October 11. At that time, Dr. Joe Benson will speak on the depositional history of the Smackover in southwestern Alabama. I know many of us work this area and will want to hear this talk, so please call T.C. at 969-3286 with your reservations.

To reiterate an announcement from our last luncheon meeting, we are currently attempting to update our bylaws and bring them into line with practices in the Society. If you wish to have input in the update/revision of the bylaws, contact Stan Galicki at Union at 948-8676. Volunteer or be volunteered!

Elsewhere in this bulletin you will notice a new feature, "Pages from the Past". From time to time we will include a peek at the past from the minute books of the Society. Your submittal of anecdotes for this feature are also welcome.

A final word quoted from Malcolm Forbes: " A bore is someone who persists in holding to his own views after we have enlightened him with ours."

Stanley King



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Mississippi Geological Society

NOON MEETING

TUESDAY, OCTOBER 11, 1988

Smackover Room, Petroleum Club

SPEAKER

D. JOE BENSON

TOPIC

Depositional History of the
Smackover Formation, Southwest Alabama

*Please notify T. C. Rader (969-3286) of your
attendance so adequate seating can be arranged.*



Depositional History of the Smackover Formation, Southwest Alabama

D. Joe Benson

The University of Alabama

Box 1945, Tuscaloosa, AL 35487-1945

Abstract

The Smackover Formation in Southwest Alabama is the product of a 3rd-order sea level rise during the Middle Jurassic. There is, however, significant lateral variation in lithologic sequence reflecting the effects of Smackover paleotopography. Paleozoic ridges and Mesozoic horst blocks defined a number of paleohighs which separated southwest Alabama into a series of subbasins or embayments. The Smackover lithologic sequence differs significantly from basin to paleohigh.

Initial transgression of Smackover seas reworked the upper surface of the underlying Norphlet clastics and resulted in deposition of intertidal to shallow subtidal algally-laminated mudstones and peloidal and oncoidal wackestones and packstones. These lower Smackover lithologies are commonly dolomitized and locally anhydritic. Initial lower Smackover deposition was restricted to paleolows while subaerial clastic deposition continued over the still emergent paleohighs. As sea level continued to rise these lower Smackover deposits graded upward into skeletal and peloidal wackestones that contain a sparse, somewhat restricted faunal assemblage. These wackestones are interbedded with argillaceous, organic-rich mudstones that reflect deeper, more restricted depositional conditions. Sea level rise had inundated most of the paleohighs by the early Oxfordian. Ooid and oncoidal grainstone shoals developed across paleohighs and along the updip margin. In the basin centers skeletal and peloidal wackestone/ packstones were being deposited. As the rate of sea level rise decreased, the shoals began to prograde basinward and lagoonal environments developed behind the shoals in some areas. Sea level fluctuations led to the formation of stacked shallowing-upward sequences. Evaporitic sabkhas developed along the updip margin and prograded basinward behind the shoals, eventually terminating carbonate deposition.

James M. Townsend, a young New Haven banker, founded America's first petroleum producing company, the Seneca Oil Company.

The prospect of oil being found in sufficient quantities to replace coal inspired Townsend to join the Pennsylvania Rock Oil Company. When differences arose between the New York and New Haven groups, Townsend organized the Seneca Oil Company on March 23, 1858. The new company took over the Titusville lease on the 100-acre Hibbard farm in Watson Flats held by E. L. Drake and E. B. Bowditch.

Townsend was president of the City Savings Bank of New Haven. He was the man who selected Drake, a railroad conductor on sick leave, to head the drilling of the first well. Townsend was one of two men credited with first getting the idea to bore for oil instead of excavating or trenching.

Townsend is described by historians as ambitious, energetic, and eager to try something new and exciting. He was the moving spirit behind the first discovery after he had been told by George H. Bissell and his business partner, Jonathan G. Eveleth, that oil could replace coal.

After all of his associates in the Seneca Oil Company had put up "the final \$500" for Drake's expenses in April of 1858, Townsend decided to stick it out alone. He financed the venture alone until he had drained his personal financial sources. He sent a letter and his last money, regretfully and reluctantly telling Drake to pay his debts and stop operations. The message was said to have been received about the time Drake hit oil.

Townsend was not an officer in the Seneca Oil Company. He financed, promoted, and inspired it, but he conferred the presidency on Drake. The company was capitalized for \$300,000 with 12,000 shares. Of these, 8,926 were issued to Drake. Later (by virtue of an unpublished letter agreement), Drake transferred all except 626 of these shares to Townsend.

Townsend was the founder, saviour, and principal financial supporter of the first company to successfully drill for oil.

PAGES FROM THE PAST

Minutes of the Mississippi Geological Society

December 2, 1942

A dinner meeting held by the Society on Wednesday, December 2, 1942, at the Edwards Hotel was called to order by President Harrell at 8:00 P.M. with thirty present.

Mr. Henry Toler, Chairman of the Program Committee, discussed the programs which have been arranged for the regular meetings of the society during the remainder of the 42-43 season. It appears that despite the current difficulty in securing speakers due to travel restrictions and other problems in connection with the war effort, the standard of the society's programs will be maintained throughout the year.

President Harrell announced that there is available a set of U.S. Coast and Geodetic Survey Bench Marks, which can be secured at nominal cost.

President Harrell also announced that the A.A.P.G. has for sale at 50¢ per copy a "Report on a Conference of Sedimentation" conducted by the Research Committee of the A.A.P.G. The copies ordered at the preceding meeting have been received and are being distributed.

Mr. W.J. Gillingham, District Manager of Schlumberger Well Survey Corporation, delivered a paper on the S.P. Dipmeter which, after exhaustive research, is now offered as an additional service to the oil industry for the purpose of determining the angle and direction of the dip of the strata traversed by a drill hole. Mr. Gillingham's interesting discussion, supplemented by lantern slides, included a detailed description of the apparatus and method involved, as well as a discussion of results obtained in Gulf Coast salt-dome wells.

The meeting adjourned at 9:45 P.M.

K.K. Spooner
Secretary-Treasurer

NOON LUNCH SCHEDULE

1988

September 13

October 11

November 8

December 13

1989

January 10

February 14

March 14

April 11

May 9

Luncheon meetings will begin at 11:30 a.m.
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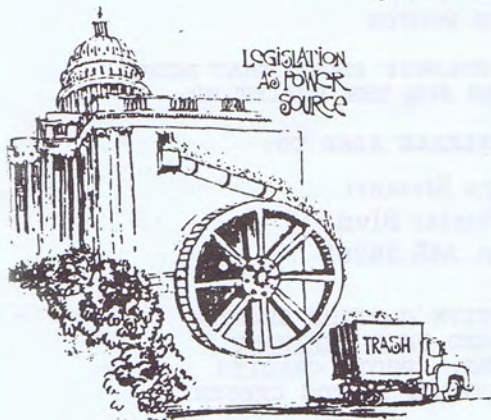
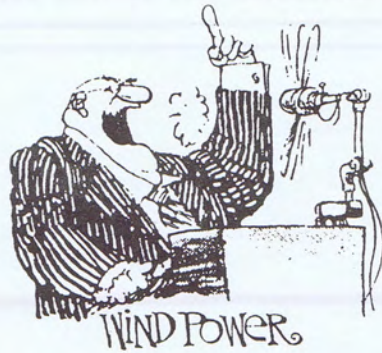
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on the Application of Geophysics
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(Please add to your calendar of
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SEMEG TO HOST SECOND "SYMPOSIUM
ON THE APPLICATION OF GEOPHYSICS TO
ENGINEERING AND ENVIRONMENTAL PROBLEMS"

Denver-- The Society of Engineering & Mineral Exploration Geophysicists is presenting the second annual Symposium on the Application of Geophysics to Engineering and Environmental Problems. The symposium will be held on March 13-16, 1989, at the Colorado School of Mines in Golden, Colorado.

The recently completed symposium drew 136 attenders, representing twenty-nine states and Canada. Plans are already being implemented to broaden the scope of the symposium to appeal to an even wider range of attenders.

If you are interested in submitting a technical paper or case history for the symposium, please send an abstract to:

Ron Bell, SEMEG
c/o BellWest Geoservices
P.O. Box 10845, Edgemont Branch
Golden, CO 80401

Other pertinent information:

Registration Fee _____ \$60.00
Hours of Symposium _____ 8:00 a.m. - 5:00 p.m.
Special Room Rates _____ \$70.00 single, \$80.00 double

JOHN FRANKLIN CARLL (1828-1904)

John Franklin Carll was born in Bushwick, New York, now a part of Brooklyn. He received a liberal education at Union Hill Academy in Jamaica, Long Island, and later studied civil engineering.

Carll has been called the father of petroleum engineering and a pioneer in petroleum geology.

Carll was a farmer, a civil engineer, editor of the *Morning Eagle* in Newark, New Jersey, and later a wire manufacturer. After the accidental death of his wife and two children and the destruction of his factory by fire in 1864, he was attracted to the oil regions. In 1866, he went to Nacogdoches, Texas, with about \$5000 worth of machinery. As the representative of the Brown Brothers of Titusville, he helped Lynis T. Barret drill for oil. But, in 1867, his clients ordered his return because of a drastic drop in oil prices.

Carll was the first man to describe, in written form, problems involving the assembly of accurate drilling data. He performed crude experiments in capillary attraction and, in the 1870's, pointed out possible benefits of water flooding. He outlined various phases and aspects of what are today recognized as the fundamentals of petroleum engineering and collected on a large scale the first organized well records for correlation purposes. He was an inventor of many early oil field tools and an innovator in drilling techniques; he was the first to suggest and promote unit operations and the first to predict formation thinning; he headed a committee to study direction and dip of oil sands. He carefully observed rock strata and wrote exhaustive, complete treatises on geology of oil formations and the phenomena of oil and gas production.

In the famous Second Pennsylvania Geological Survey he wrote about tools and equipment used in the first 20 years of oil well drilling, describing, with his own illustrations, drilling techniques and casing, tubing, and various tools. He was a faithful and accurate chronicler of early production methods.

Carll was the father of reservoir engineering and pioneered water, gas, and air injection to stimulate oil wells. In 1880 he made the earliest estimates of porosity in oil sands. His work was the first organized research in petroleum production.



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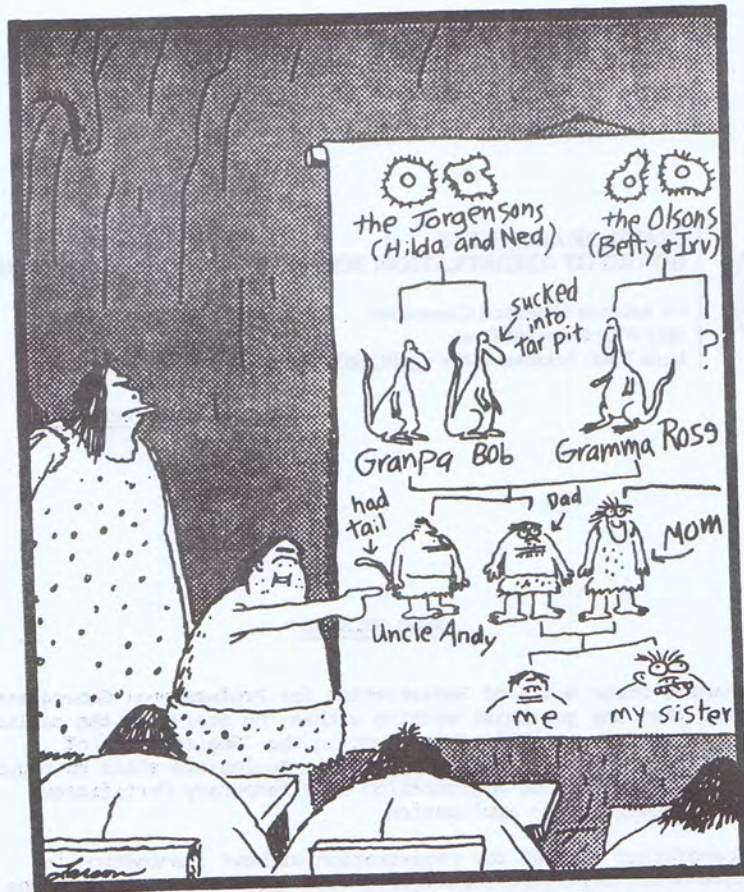
NEWS RELEASE

The Arkansas State Board of Registration for Professional Geologists has announced that any geologist working within the State, in the public sector, after July 1, 1988, is subject to the "Registration of Geologists Act of 1987." Those applicable geologists shall be required to have a Certificate of Registration or a Temporary Certificate indicating registration application.

The "Grandfather Clause" for registration without examination is effective until May 1989. Geologists with necessary qualifications who wish to apply for registration without taking a written examination should write to the Board for application forms not later than May 1, 1989.

Requests for forms and information should be made to:

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1. Mississippi Geological Society Photo Directory, 1981 \$ 2.00
2. Wilcox Fields of Southwest Mississippi, Maps and production data on 171 fields, in ring binder, 350 pp., 1969 28.00
Mesozoic-Paleozoic Producing Ares of Mississippi and Alabama.
3. Volume I. Maps and producing data on 57 fields, with 2 composite logs, clothbound, 139 pp., 1957 10.00
4. Volume II. Maps and producing data on 77 fields, includes Supplement 1, in ring binder, 143 pp., 1963 15.00
5. Supplements 2 through 7 for Volume II, Maps and producing data on 35 fields, 110 pp. 15.00
6. Supplement 8 for Volume II, Maps and producing data on 34 fields, 108 pp., 1980 25.00
7. Volume II, complete with Supplements 2-8, 361 pp., 146 fields 50.00
- ★ 8. Volume III, 85 pp., 46 fields, 1987 50.00

FIELD TRIP GUIDEBOOKS

9. Upper Cretaceous Outcrops, Northeast Mississippi and West Central Alabama, Fourteenth Field Trip, 29 pp., May, 1959 4.00
10. Cenozoic of Southeast Mississippi and Southwest Alabama, Fifteenth Field Trip, 52 pp., May, 1960 6.00
11. Cenozoic of Horn Island and the Pascagoula Valley, 10th Annual GCAGS Meeting, 24 pp., October, 1960 2.50
12. The Paleozoics of Northwest Arkansas, Sixteenth Field Trip, 48 pp., May, 1962 5.00
13. Tertiary Type Localities of East-Central Mississippi, 25th GCAGS Meeting, 133 pp., October, 1975 5.00
14. Mississippi Rocks of the Black Warrior Basin, Seventeenth Field Trip, 79 pp., April, 1978 8.00
15. Tertiary and Upper Cretaceous Depositional Environments, Central Mississippi and West Central Alabama, 33rd Annual GCAGS Meeting, 40 pp., October, 1983 7.50

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The Four Corners Geological Society is pleased to announce that "GEOLOGY OF CATARACT CANYON AND VICINITY", a guidebook for the Tenth Field Conference, 1987, is now available. New information on stratigraphy, sedimentology, structure, surficial geology, groundwater, oil and gas fields as well as new papers on the history of the Canyonlands area of southeast Utah are included. Price is \$35 which includes postage and handling.

1987	"GEOLOGY OF CATARACT CANYON AND VICINITY," Tenth Field Conference, 199 p. (hardbound)	\$35.00
1984	"FIELD TRIP GUIDEBOOK," Thirty-seventh Annual Meeting, Rocky Mountain Section GSA, 209 p. (softbound)	\$15.00
1983	"OIL AND GAS FIELDS OF THE FOUR CORNERS AREA," VOLUME III, Field papers include geologic setting, discovery well, drilling and completion practices and reservoir data along with a structure map and a typical wireline well log. Designed to complement Volumes I and II, 95 field papers, 415 p. (ring binder, looseleaf)	\$55.00
1979	"PERMIANLAND," Ninth Field Conference, 186 p. (hardbound)	\$25.00
1978	"OIL AND GAS FIELDS OF THE FOUR CORNERS AREA," VOLUME I and II 242 field papers, 726 p. (ring binders, looseleaf)	\$85.00
1976	"GEOLOGIC MAP OF THE GRAND CANYON," (in color), 42" x 58", folded, Copyright, 1976	\$8.00
1975	"CANYONLANDS COUNTRY," Eighth Field Conference, 288 p. (hardbound)	\$25.00
1974	"GEOLOGY OF THE CANYONS OF THE SAN JUAN RIVER," 94 p. (softbound)	\$5.00
1973	"CRETACEOUS AND TERTIARY ROCKS OF THE SOUTHERN COLORADO PLATEAU," 281 p. (available in microfiche ONLY)	\$10.00
1971	"GEOLOGY OF CANYONLANDS AND CATARACT CANYON," Sixth Field Conference, 89 p. (softbound)	\$6.00
1969	"GEOLOGY AND NATURAL HISTORY OF THE GRAND CANYON REGION," Fifth Field Conference, Powell Centennial River Expedition, 212 p. (available in microfiche ONLY)	\$5.00
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The program will address the hypothesis that porosity and permeability of reservoirs undergo a complex, yet predictable, multistage physicochemical evolution in response to increasing thermal stress and burial depth. This evolution will be described and related to thermal maturation of organic matter (kerogen, vitrinite, hydrocarbons) in shales associated with potential reservoir rocks. Data relating stage of pore system evolution to vitrinite reflectance will be presented for several basins with special emphasis being placed on the destructive phase of hydrocarbons and reservoirs beyond which commercial hydrocarbon accumulations should not be expected. Once calibration to specific formations (basins/trends) has been established, maximum paleotemperatures alone can be an accurate predictor of commercial hydrocarbon basements and a reliable tool for risk assessment.

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Participants presenting papers will include: John Hayes (Consultant, Littleton, Colorado), Ron Surdam (University of Wyoming), Rick Tobin (Amoco Production Co., Houston), Dennis Prezbindowski (Consultant, Tulsa, Oklahoma), Francis Ting (West Virginia University), Roger Sassen (Louisiana State University) and John Clendening (Amoco Production Co., Houston).

For additional information regarding registration, etc., contact Dr. John A. Clendening, Amoco Production Co., Box 3092, Houston, Texas 77253. Telephone Number 713-556-3549.

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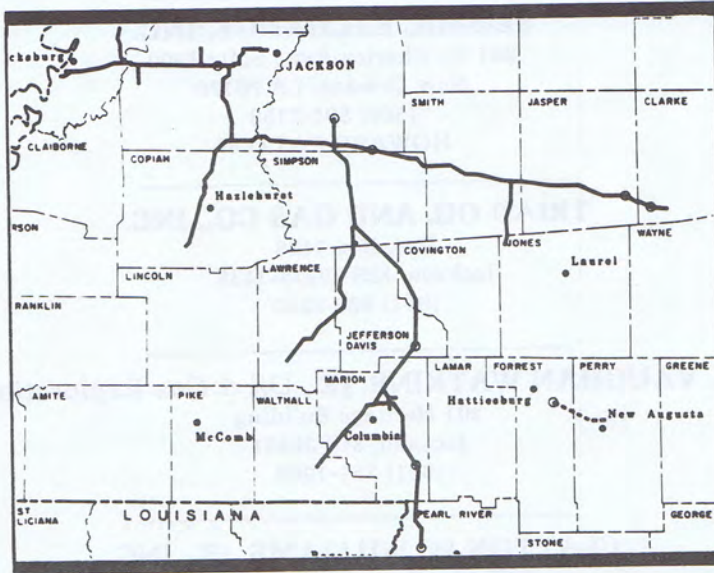
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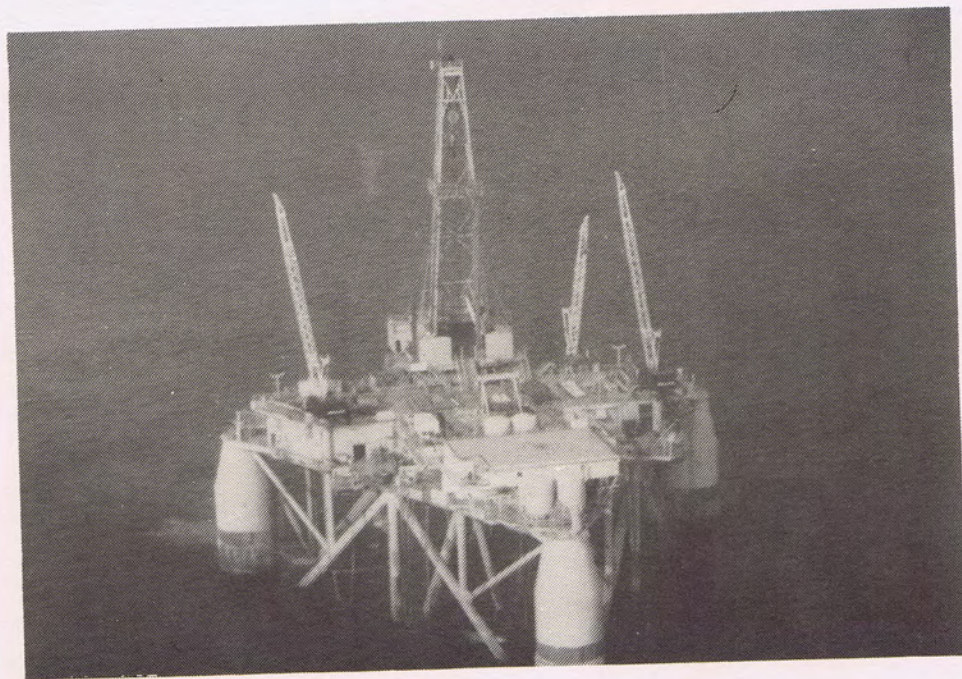


MISSISSIPPI GEOLOGICAL SOCIETY

Volume XXXVII

No. 3

November 1988



1988-89

PRESIDENT'S MESSAGE

Well, the 1988 GCAGS Convention in New Orleans is now history. Those of you who attended heard some good papers, renewed old acquaintances, and found new friends at every turn. Overall, I believe the Convention turned out quite well, in spite of the fact that attendance was somewhat below projections. The GCAGS Board of Directors addressed several issues of interest to us, including the encouragement of junior and senior high school students to enter the field of geology. Several recommendations are currently under study and I welcome your comments and suggestions along these lines.

As you will note elsewhere in this bulletin, on November 8th our speaker at the noon luncheon will be Robert M. Sneider, an AAPG Distinguished Lecturer. The topic of his talk will be, "Reservoir Description for Exploration and Development: What is Needed and When?" This presentation promises to be of interest to geologists, engineers, and geophysicists alike, so call T.C. at 969-3286 with your reservations, then grab your favorite engineer and/or geophysicist and attend!

During the GCAGS Board of Directors meeting on Friday of the Convention reports on the condition of the various affiliated societies were given. I could not help but compare our Society with some of our sister societies. While some reported gains in membership, most representatives there seemed to express a 'holding pattern' attitude, while some were nearly depressed. We can take heart that our Society is financially strong, and, especially for its size, is doing quite well, I believe. This is not to say that we are going to rest on our laurels, for there is much to be done. I believe the plans your officers have made and are making for the coming months will assist in maintaining our strength. And while I'm along these lines, if you are called upon to volunteer for a committee task, please say 'yes'. Sure, you may have done all sorts of things in the past for the Society, and it is appreciated, but as long as you are an active geologist, you should be willing to come to the aid of your Society. The success of your Society depends upon your involvement!

Keep your head up and keep up the good work!



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Mississippi Geological Society

NOON MEETING

TUESDAY, NOVEMBER 8, 1988

Smackover Room, Petroleum Club

A.A.P.G. Distinguished Lecture Tour

SPEAKER

Robert M. Sneider

TOPIC

Reservoir Description for Exploration and
Development: What is Needed and When?

Please notify T. C. Rader (969-3286) of your
attendance so adequate seating can be arranged.



Reservoir Description for Exploration and Development:

What is Needed and When?

Robert M. Sneider
Exploration and Development Consultant
Robert M. Sneider Exploration, Inc.
Houston, Texas

The biggest challenge for geologists, geophysicists, and petroleum engineers now and in the decades ahead is to significantly improve hydrocarbon recovery from all new and previously discovered reservoirs. Keystone of the methodology required to improve oil and gas production, as well as to evaluate and delineate new reserves, is a detailed reservoir description. This is a characterization of the reservoir and nonreservoir rock - fluid system that is appropriate in content and detail for the particular stage of exploration and production. The type and amount of data required for a proper reservoir description are diverse, from several disciplines, and depend upon the stage a reservoir is in, in its E & P cycle. The E & P cycle is viewed as a continuous series of overlapping stages from discovery, through appraisal, planning, development, and reservoir management. The concepts and data needed to define and exploit reservoirs become more complex and quantitative as the production becomes more mature. Concepts, data, and models developed during the production phases, when reapplied to exploration, provide important guides to the explorationists for evaluating trapping elements, seals, reservoir quality, and risks in basin and wildcat evaluation.

When one looks at the question "When is a reservoir description needed?" the answer is simple. The need starts once a discovery is made and the discovery is being appraised as to the best estimates of hydrocarbon in place, recoverable reserves, and rates of production. As a field or reservoir goes through its typical "life cycle" of discovery, appraisal, planning, development, and reservoir management, a more complete description is both necessary and possible. Key concepts and methodology for reservoir description appropriate to the history and stage of field/reservoir depletion are illustrated by case studies from several basins around the world. Check lists that outline reservoir description needs and timing are discussed in the context of the stage of field/reservoir exploitation.

A critical first step in the reservoir description process is the recognition of any correlative reservoir subzones or layers and any intervening dense, impermeable, or low-permeability strata. Knowledge of the depositional/diagenetic processes controlling reservoir and nonreservoir rock is essential to determine ones ability and degree of confidence in correlating these units. Seismic sequence, lithologic, and fluid analyses and well-documented outcrop studies can add significantly in establishing interwell correlations. Recognizing and mapping all vertical or horizontal fluid-flow barriers, as well as "thief" zones or zone of unusual permeability contrast and faults, are critically important to all recovery processes. Flow-test data dovetailed with knowledge of the reservoir and nonreservoir framework based on geology/geophysics provides the best reservoir description of continuity/discontinuity.

Structural and stratigraphic maps, cross sections and fence and block diagrams are the illustrations used to convey the three-dimensional geometry, distribution, and continuity of the reservoir, nonreservoir, and aquifer. A variety of computer programs aid in preparing these illustrations. Isopach maps without the accompanying detail correlation sections have been the "pitfall" of many projects. Net pay isopach maps drawn to provide the basis for determining hydrocarbons-in-place have "tricked"

Robert M. Sneider

many petroleum engineers into believing a reservoir is more continuous, more homogeneous, and less stratified than it actually is.

The importance of discontinuous shale barriers of limited areal extent on coning and the drainage of oil from a gas-invaded area are illustrated. This work demonstrates the important need to include shale dimensions in many types of recovery calculations and predictions.

The recognition, selection, and description of reservoir units or layers and then the communication of this "picture" to the petroleum engineers are fundamental contributions and the responsibility of the geologists/geophysicists team members. A coordinated data-acquisition program can greatly improve the probabilities of correct assessments in discovery, appraisal, planning, development, and reservoir management.

A good reservoir description designed to answer key reservoir performance questions is a fundamental tool. The incremental well costs to obtain adequate data for a reservoir description are very small compared with its value in improved recovery. The time to complete a reservoir description is before significant expenditures are planned and spent. Mathematical models and simulation of reservoir performance that do not have a realistic reservoir rock-fluid description are interesting, but expensive exercises that potentially lead to inappropriate or incorrect management decisions.

In exploration ventures, detailed reservoir description studies made during the production stages provide the critical data needed by the explorationist to estimate reservoir and seal quality from seismic, well logs, and samples.

Call for Papers and Posters

The Gulf Coast Association of Geological Societies
and

The Gulf Coast Section of SEPM

39th Annual Convention

Corpus Christi, Texas

October 25-27, 1989

Hosted by Corpus Christi Geological Society

Papers should be prepared in accordance with AAPG guidelines; papers and posters should have application to Gulf Coast geology. Accepted papers—and poster abstracts—will be published in GCAGS Transactions. Abstracts must be submitted with answers to the following questions: (1) Has this paper or poster been published previously? (2) If so, where and when, and how does your submission differ from the original? (3) Who will make the presentation? (4) In your opinion, is your paper more applicable to GCAGS or SEPM?

SUBMIT ALL ABSTRACTS by January 5, 1989 to:

Carlos M. Maggio
Coastal Oil & Gas Corp.
P.O. Box 521
Corpus Christi, TX 78403

Notification of acceptance will be by February 17 and completed papers will be due by April 5, 1989.

ENERGY INTO THE 90's



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NOON LUNCH SCHEDULE

1988

September 13

October 11

November 8

December 13

1989

January 10

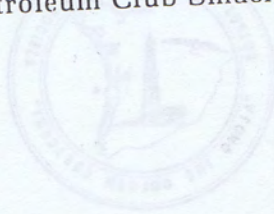
February 14

March 14

April 11

May 9

Luncheon meetings will begin at 11:30 a.m.
in the Petroleum Club Smackover Room.



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TSOP - AASP SYMPOSIUM

PREDICTION OF HYDROCARBON RESERVOIR POTENTIAL FROM PALEOTEMPERATURE AND PETROGRAPHIC DATA

A joint symposium sponsored by The Society For Organic Petrology (TSOP) and the American Association of Stratigraphic Palynologists (AASP) will be held in Houston, Texas on Wednesday, November 9, at the Hotel Inter-Continental Houston, 5150 Westheimer Road (across the street from the Galleria).

The program will address the hypothesis that porosity and permeability of reservoirs undergo a complex, yet predictable, multistage physicochemical evolution in response to increasing thermal stress and burial depth. This evolution will be described and related to thermal maturation of organic matter (kerogen, vitrinite, hydrocarbons) in shales associated with potential reservoir rocks. Data relating stage of pore system evolution to vitrinite reflectance will be presented for several basins with special emphasis being placed on the destructive phase of hydrocarbons and reservoirs beyond which commercial hydrocarbon accumulations should not be expected. Once calibration to specific formations (basins/trends) has been established, maximum paleotemperatures alone can be an accurate predictor of commercial hydrocarbon basements and a reliable tool for risk assessment.

Calibration of paleotemperature data to commercial hydrocarbon occurrence prediction is made possible by correlating: 1) petrographic criteria for recognition of processes that affect pore systems, including incipient metamorphism, 2) interpretation of vitrinite reflectance (R_o) and fluid inclusions and their applications to paleothermal histories, and 3) basin tectonics. Generation of organic acids and their role in the creation of secondary porosity will be presented and discussed. Also, the program will include brief "tutorial" reviews of vitrinite reflectance, interpretation of vitrinite data (including interpreted maximum paleotemperatures) from dispersed organics, and its application to petroleum exploration. A panel discussion will follow the presentation of papers.

Participants presenting papers will include: John Hayes (Consultant, Littleton, Colorado), Ron Surdam (University of Wyoming), Rick Tobin (Amoco Production Co., Houston), Dennis Prezbindowski (Consultant, Tulsa, Oklahoma), Francis Ting (West Virginia University), Roger Sassen (Louisiana State University) and John Clendening (Amoco Production Co., Houston).

For additional information regarding registration, etc., contact Dr. John A. Clendening, Amoco Production Co., Box 3092, Houston, Texas 77253. Telephone Number 713-556-3549.

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Sheraton New Orleans Hotel

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Program Committee: Lee Lundell, ARCO Oil and Gas Company; Robert K. Olson, Amoco Production Company; Bob Elsinger, Chevron USA, Inc.; Joseph T. Senftle, ARCO Oil and Gas Company; Roger Sassen, Louisiana State University Basin Research Institute
Technical Sessions: 2 1/2 days, 28 presentations, poster sessions, and displays

PRELIMINARY LIST OF

SPEAKERS AND TOPICS

- K.K. BISSADA, B.J. KATZ, S.J. BARNICLE, and D.J. SCHUNK: On the Origins of Hydrocarbons in the Gulf of Mexico — A Reappraisal
- J.M. BROOKS and MAHLON C. KENNICUTT: Shallow Manifestations of Hydrocarbon Seepage in the Green Canyon Lease Area
- JACK D. BURGESS: Correlation of Cretaceous and Jurassic Oils in East Texas
- GEORGE E. CLAYPOOL and ERNEST A. MANCINI: Geochemistry of Mesozoic Crude Oils, Gas Condensates, and Potential Source Rocks in Southwestern Alabama
- DORIS M. CURTIS: Source of the Oil in Gulf Coast Cenozoic Reservoirs
- WALLACE G. DOW and M. ARIF YUKLER: Miocene Oil Source Beds in the Flexure Trend, Offshore Texas
- ROBERT J. ELSINGER: Use of Gas Chromatography to Differentiate Oils in Solving Development and Production Problems in the Gulf of Mexico
- BOB EVANS: Migration System Within the South Mississippi Salt Basin: Geological and Geochemical Deductions
- E. FABER, J. LIETZ, W.J. STAHL and J.M. BROOKS: Thermal Hydrocarbons in Gulf Coast Sediments
- H.I. HALPERN and A.G. REQUEJO: A Geochemical Study of Twenty-Three Oils from South Pass 61 Field, Offshore Louisiana
- JEFFREY S. HANOR and ROGER SASSEN: Deep Basin Hydrodynamics of the Louisiana Gulf Coast: Implications for Oil and Gas Migration
- RUSS KAUFMAN and A.S. AHMED: Applications of Crude Oil Fingerprinting to Reservoir Correlation in Development Geology
- IAN LERCHE, J. PANTANO, and W. G. LYON: The South Padre Island C.O.S.T. No. 1 Well: An Integrated Study of Burial, Thermal, and Maturation Histories from Downhole Geophysical and Geochemical Data
- LEIGH C. PRICE and JERRY L. CLAYTON: The Reasons for, and Significance of, Deep, High-Rank Hydrocarbon Generation in the South Texas Gulf Coast
- LEIGH C. PRICE: Results and Implications of Crude-Oil Characterization at Calliou Island Field by "Generic" Hydrocarbons
- JAMES D. PRIKRYL and HARRY H. POSEY: Origin of Salt Dome Cap Rock at Demon Mound, Texas: A Petrographic and Geochemical Model
- HARRY H. ROBERTS, PAUL AHARON, and ROGER SASSEN: The Role of Hydrocarbons in Creating Sediment and Small Scale Topographic Variability on the Louisiana Continental Slope
- ROGER SASSEN and CLYDE MOORE: Geochemistry of Carbonate Source Rocks and Crude Oils in Jurassic Salt Basins of the Gulf Coast from Texas to Florida
- D. SCHUMACHER and ROSE MARY PARKER: Possible Paleozoic or Triassic Origin for Jurassic-Reservoired Oil, Cass Co., Texas
- ZVI SOFER: The Geochemistry of Smackover Oils
- ROBERT E. SWEENEY: Chemical Alteration of Smackover Oils as a Function of Maturation
- J.A. TANNER and A.N. FEUX: Origin of Vicksburg-Frio Oil and Gas, Starr County, Texas
- GILBERT D. TAYLOR and JOHN M. ARMENTROUT: Kerogen Assemblages of Upper Pliocene Turbidites, High Island, Gulf of Mexico
- KEITH F. THOMPSON and MAHLON C. KENNICUTT: Nature and Frequency of Occurrence of Non-Thermal Alteration Processes in Gulf of Mexico Offshore Oils
- CLIFFORD C. WALTERS: Organic Geochemistry of Gases and Condensates from High Island South Addition Block 511A, Offshore Texas
- LLOYD WENGER, ROGER SASSEN, and D. SCHUMACHER: Molecular Characteristics of Smackover, Tuscaloosa, and Wilcox-Reservoired Oils Eastern Gulf Coast
- DOUG WILLIAMS *et al.*: Quantitative Modeling of Carbon Isotopic Signals for Chemical Stratigraphy and Hydrocarbon Exploration, Gulf of Mexico
- M. ARIF YUKLER and WALLACE G. DOW: Temperature, Pressure and Hydrocarbon Generation Histories in the San Marcos Arch Area, Dewitt County, Texas

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Conference registration is \$195 through October 31, 1988 and includes admission to all technical and poster sessions and displays, welcoming reception, two lunches, evening buffet and five refreshment breaks and a copy of the program with abstracts. After October 31, 1988 registration fee is \$250. No refund for conference cancellations received after November 15, 1988 will be made. All approved refunds will be made after December 15, 1988 and will be subject to a \$25 processing fee.

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The "Grandfather Clause" for registration without examination is effective until May 1989. Geologists with necessary qualifications who wish to apply for registration without taking a written examination should write to the Board for application forms not later than May 1, 1989.

Requests for forms and information should be made to:

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1. Mississippi Geological Society Photo Directory, 1981 \$ 2.00
2. Wilcox Fields of Southwest Mississippi, Maps and production data on 171 fields, in ring binder, 350 pp., 1969 28.00
3. Mesozoic-Paleozoic Producing Ares of Mississippi and Alabama. Volume I. Maps and producing data on 57 fields, with 2 composite logs, clothbound, 139 pp., 1957 10.00
4. Volume II. Maps and producing data on 77 fields, includes Supplement 1, in ring binder, 143 pp., 1963 15.00
5. Supplements 2 through 7 for Volume II, Maps and producing data on 35 fields, 110 pp. 15.00
6. Supplement 8 for Volume II, Maps and producing data on 34 fields, 108 pp., 1980 25.00
7. Volume II, complete with Supplements 2-8, 361 pp., 146 fields 50.00
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11. Cenozoic of Horn Island and the Pascagoula Valley, 10th Annual GCAGS Meeting, 24 pp., October, 1960 2.50
12. The Paleozoics of Northwest Arkansas, Sixteenth Field Trip, 48 pp., May, 1962 5.00
13. Tertiary Type Localities of East-Central Mississippi, 25th GCAGS Meeting, 133 pp., October, 1975 5.00
14. Mississippi Rocks of the Black Warrior Basin, Seventeenth Field Trip, 79 pp., April, 1978 8.00
15. Tertiary and Upper Cretaceous Depositional Environments, Central Mississippi and West Central Alabama, 33rd Annual GCAGS Meeting, 40 pp., October, 1983 7.50

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(This list supersedes all previous lists)

The Four Corners Geological Society is pleased to announce that "GEOLOGY OF CATARACT CANYON AND VICINITY", a guidebook for the Tenth Field Conference, 1987, is now available. New information on stratigraphy, sedimentology, structure, surficial geology, groundwater, oil and gas fields as well as new papers on the history of the Canyonlands area of southeast Utah are included. Price is \$35 which includes postage and handling.

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|------|--|---------|
| 1987 | "GEOLOGY OF CATARACT CANYON AND VICINITY,"
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TSOP - AASP SYMPOSIUM

PREDICTION OF HYDROCARBON RESERVOIR POTENTIAL FROM PALEOTEMPERATURE AND PETROGRAPHIC DATA

A joint symposium sponsored by The Society For Organic Petrology (TSOP) and the American Association of Stratigraphic Palynologists (AASP) will be held in Houston, Texas on Wednesday, November 9, at the Hotel Inter-Continental Houston, 5150 Westheimer Road (across the street from the Galleria).

The program will address the hypothesis that porosity and permeability of reservoirs undergo a complex, yet predictable, multistage physicochemical evolution in response to increasing thermal stress and burial depth. This evolution will be described and related to thermal maturation of organic matter (kerogen, vitrinite, hydrocarbons) in shales associated with potential reservoir rocks. Data relating stage of pore system evolution to vitrinite reflectance will be presented for several basins with special emphasis being placed on the destructive phase of hydrocarbons and reservoirs beyond which commercial hydrocarbon accumulations should not be expected. Once calibration to specific formations (basins/trends) has been established, maximum paleotemperatures alone can be an accurate predictor of commercial hydrocarbon basements and a reliable tool for risk assessment.

Calibration of paleotemperature data to commercial hydrocarbon occurrence prediction is made possible by correlating: 1) petrographic criteria for recognition of processes that affect pore systems, including incipient metamorphism, 2) interpretation of vitrinite reflectance (R_o) and fluid inclusions and their applications to paleothermal histories, and 3) basin tectonics. Generation of organic acids and their role in the creation of secondary porosity will be presented and discussed. Also, the program will include brief "tutorial" reviews of vitrinite reflectance, interpretation of vitrinite data (including interpreted maximum paleotemperatures) from dispersed organics, and its application to petroleum exploration. A panel discussion will follow the presentation of papers.

Participants presenting papers will include: John Hayes (Consultant, Littleton, Colorado), Ron Surdam (University of Wyoming), Rick Tobin (Amoco Production Co., Houston), Dennis Prezbindowski (Consultant, Tulsa, Oklahoma), Francis Ting (West Virginia University), Roger Sassen (Louisiana State University) and John Clendening (Amoco Production Co., Houston).

For additional information regarding registration, etc., contact Dr. John A. Clendening, Amoco Production Co., Box 3092, Houston, Texas 77253. Telephone Number 713-556-3549.

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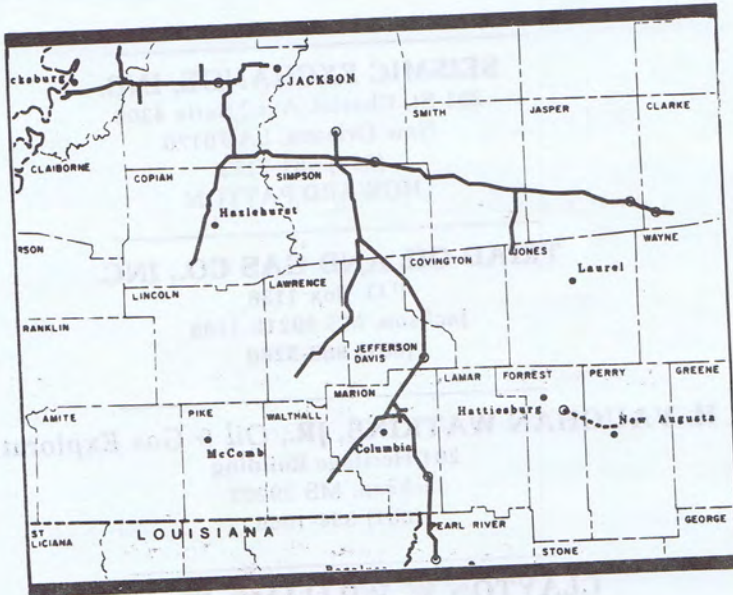
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Volume XXXVII

No. 4

December 1988



1988-89

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PRESIDENT'S MESSAGE

By the time you read this column, the latest OPEC meeting will have adjourned, probably with the usual amount of discord among members. It is possible, however, that some agreement will have been reached, or at least some reasonable facsimilie thereof. As we all know, those agreements tend to buoy crude prices temporarily until someone in the Middle East sneezes and then we're back to square one in the rollercoaster game of economic survival.

On my desk now are various articles regarding the future course and (in)stability of crude pricing. Such notions as "End of Iran-Iraq war will bring stability to crude prices", "Why \$18 oil makes sense for OPEC", "Investment strategy... leverage is still with natural gas", and a brochure on new strategies for raising oil and gas investment dollars all point to the fact that our industry is now not unlike a leaf on a river-- moving (or being carried along) without much input as to its destination. The solutions, like our problems, are manifold. We must do our part to ensure some sort of comprehensive national policy which protects our domestic industry (and our national security) from effective obliteration. Get involved!

Now that I have put away my soapbox, it is my pleasure to inform you of our upcoming December noon meeting. Having given Jim Files, our program chairman, the month off in return for promises of hard work for the rest of his term, we will depart from the norm for our December 13th meeting. On that day, your Society will stage 'December Doin's', the MGS Christmas Social. The time is 12 noon till 2:00 PM in the Smackover Room of the Capitol City Petroleum Club. The price of \$7.00 will entitle you to drinks, hors d'œuvres, and much chat and fellowship with your fellow laborers in the cause. Please call T.C. at 969-3286 with your reservations so we can adequately plan for this event.

Thank you to those who have come forward recently and volunteered in response to requests for committee members and the like. It is most gratifying and makes my job easier. As always, I welcome your suggestions, complaints, and involvement.

Satis verborem.

Stanley King



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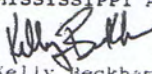
Mississippi Association of Petroleum Landmen wishes to invite all the members of the Mississippi Geological Society to attend our annual Christmas party to be held December 16, 1988 at 8:00 at Primos Northgate.

All tickets purchased before December 9, 1988 can be purchased for \$25.00 per person and thereafter for \$40.00 per person. All checks should be made payable to Mississippi Association of Petroleum Landmen and sent to:

Mr. Kelly Beckham
Post Office Box 16828
Jackson, Mississippi 39236

Sincerely yours,

MISSISSIPPI ASSOCIATION OF PETROLEUM LANDMEN


Kelly Beckham
Vice-President

December 3, 1941

"PAGES FROM THE PAST"

MINUTES OF THE MISSISSIPPI GEOLOGICAL SOCIETY

A business and technical meeting of the Mississippi Geological Society was held in the Edwards Hotel, Jackson, Mississippi, 7:30 P. M., December 3, 1941.

About 40 were present. President McGlothlin presided.

Two new members were introduced to the Society.

(M. A. Deason and George Freeman, both with Schlumberger Well Survey Corporation, Jackson, Mississippi.)

The Nomenclature Committee Chairman reported that the salt dome discovered by Magnolia #1 Hall in Section 39-17N-4E, Warren County, Mississippi, is named King's Dome and that for the present Morgan #1 Johnny, Section 4-11N-3E, Madison County, is regarded as an extension to the Pickens Field.

The Field Trip Committee Chairman requested that any information helpful towards locating a large boat be passed on to him. A boat capable of at least 100 passengers is needed for the proposed Spring field trip down the Tombigbee River. Mr. Spooner also reported that he had some correspondence regarding a possible field trip by boat on the Chattahoochee River, which is the southwest Georgia and southeast Alabama boundary line and

along which beds from Pre-Cambrian to Recent age are exposed.

Following the business meeting Mr. A. M. Loyd, Geologist with the Sun Oil Company, Shreveport, gave a very interesting talk on the subsurface Jurassic of North Louisiana, South Arkansas, and Northeast Texas and commented on the surface Jurassic west of Monterey, Mexico. Mr. Loyd had several large scale maps and cross sections for his talk and a box of excellent core samples for examination. Much interesting discussion followed his talk.

The meeting adjourned at 10:15 P. M.

A. A. Halston
Secretary-Treasurer

Approved: 12/17/41

NOON LUNCH SCHEDULE

1988

September 13

October 11

November 8

December 13

1989

January 10

February 14

March 14

April 11

May 9

Luncheon meetings will begin at 11:30 a.m.
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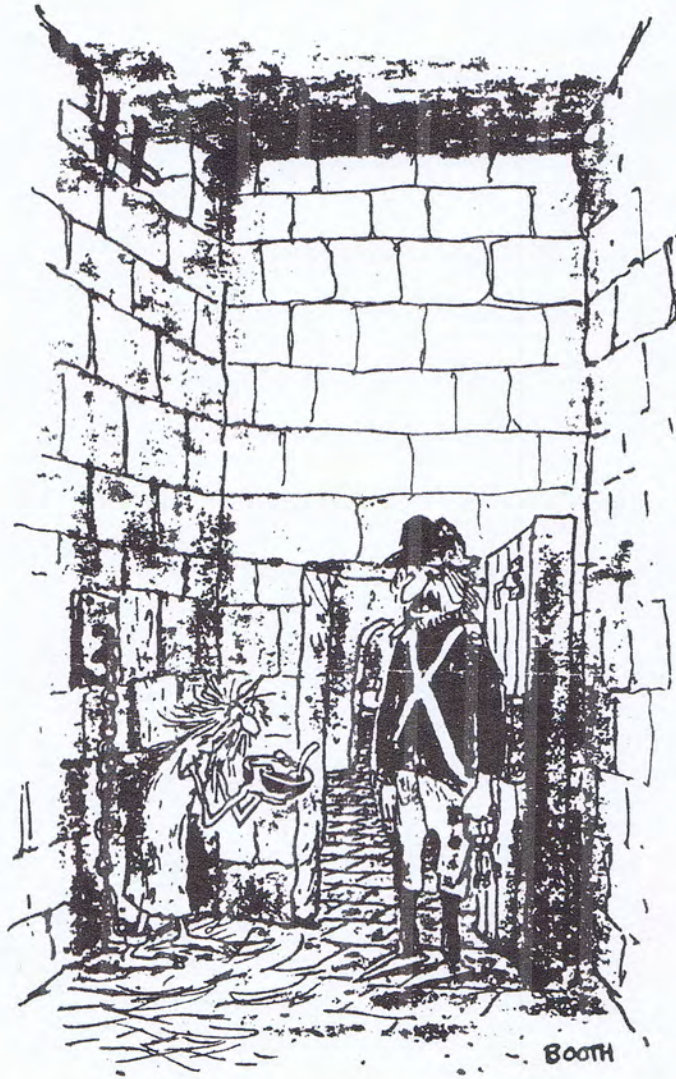
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PRELIMINARY LIST OF SPEAKERS AND TOPICS

- K.K. BISSADA, B.J. KATZ, S.J. BARNICLE, and D.J. SCHUNK: On the Origins of Hydrocarbons in the Gulf of Mexico — A Reappraisal
- J.M. BROOKS and MAHLON C. KENNICUTT: Shallow Manifestations of Hydrocarbon Seepage in the Green Canyon Lease Area
- JACK D. BURGESS: Correlation of Cretaceous and Jurassic Oils in East Texas
- GEORGE E. CLAYPOOL and ERNEST A. MANCINI: Geochemistry of Mesozoic Crude Oils, Gas Condensates, and Potential Source Rocks in Southwestern Alabama
- DORIS M. CURTIS: Source of the Oil in Gulf Coast Cenozoic Reservoirs
- WALLACE G. DOW and M. ARIF YUKLER: Miocene Oil Source Beds in the Flexure Trend, Offshore Texas
- ROBERT J. ELSINGER: Use of Gas Chromatography to Differentiate Oils in Solving Development and Production Problems in the Gulf of Mexico
- BOB EVANS: Migration System Within the South Mississippi Salt Basin: Geological and Geochemical Deductions
- E. FABER, J. LIETZ, W.J. STAHL and J.M. BROOKS: Thermal Hydrocarbons in Gulf Coast Sediments
- H.I. HALPERN and A.G. REQUEJO: A Geochemical Study of Twenty-Three Oils from South Pass 61 Field, Offshore Louisiana
- JEFFREY S. HANOR and ROGER SASSEN: Deep Basin Hydrodynamics of the Louisiana Gulf Coast: Implications for Oil and Gas Migration
- RUSS KAUFMAN and A.S. AHMED: Applications of Crude Oil Fingerprinting to Reservoir Correlation in Development Geology
- IAN LERCHE, J. PANTANO, and W. G. LYON: The South Padre Island C.O.S.T. No. 1 Well: An Integrated Study of Burial, Thermal, and Maturation Histories from Downhole Geophysical and Geochemical Data
- LEIGH C. PRICE and JERRY L. CLAYTON: The Reasons for, and Significance of, Deep, High-Rank Hydrocarbon Generation in the South Texas Gulf Coast
- LEIGH C. PRICE: Results and Implications of Crude-Oil Characterization at Callou Island Field by "Generic" Hydrocarbons
- JAMES D. PRIKRYL and HARRY H. POSEY: Origin of Salt Dome Cap Rock at Demon Mound, Texas: A Petrographic and Geochemical Model
- HARRY H. ROBERTS, PAUL AHARON, and ROGER SASSEN: The Role of Hydrocarbons in Creating Sediment and Small Scale Topographic Variability on the Louisiana Continental Slope
- ROGER SASSEN and CLYDE MOORE: Geochemistry of Carbonate Source Rocks and Crude Oils in Jurassic Salt Basins of the Gulf Coast from Texas to Florida
- D. SCHUMACHER and ROSE MARY PARKER: Possible Paleozoic or Triassic Origin for Jurassic-Reservoired Oil, Cass Co., Texas
- ZVI SOFER: The Geochemistry of Smackover Oils
- ROBERT E. SWEENEY: Chemical Alteration of Smackover Oils as a Function of Maturation
- J.A. TANNER and A.N. FEUX: Origin of Vicksburg-Frio Oil and Gas, Starr County, Texas
- GILBERT D. TAYLOR and JOHN M. ARMENTROUT: Kerogen Assemblages of Upper Pliocene Turbidites, High Island, Gulf of Mexico
- KEITH F. THOMPSON and MAHLON C. KENNICUTT: Nature and Frequency of Occurrence of Non-Thermal Alteration Processes in Gulf of Mexico Offshore Oils
- CLIFFORD C. WALTERS: Organic Geochemistry of Gases and Condensates from High Island South Addition Block 511A, Offshore Texas
- LLOYD WENGER, ROGER SASSEN, and D. SCHUMACHER: Molecular Characteristics of Smackover, Tuscaloosa, and Wilcox-Reservoired Oils Eastern Gulf Coast
- DOUG WILLIAMS *et al.*: Quantitative Modeling of Carbon Isotopic Signals for Chemical Stratigraphy and Hydrocarbon Exploration, Gulf of Mexico
- M. ARIF YUKLER and WALLACE G. DOW: Temperature, Pressure and Hydrocarbon Generation Histories in the San Marcos Arch Area, Dewitt County, Texas

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A limited number of student registrations will be available at \$50 each. Please contact Arthur S. Waterman for additional information on student registration.

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NEWS RELEASE

The Arkansas State Board of Registration for Professional Geologists has announced that any geologist working within the State, in the public sector, after July 1, 1988, is subject to the "Registration of Geologists Act of 1987." Those applicable geologists shall be required to have a Certificate of Registration or a Temporary Certificate indicating registration application.

The "Grandfather Clause" for registration without examination is effective until May 1989. Geologists with necessary qualifications who wish to apply for registration without taking a written examination should write to the Board for application forms not later than May 1, 1989.

Requests for forms and information should be made to:

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Mesozoic-Paleozoic Producing Ares of Mississippi and Alabama.
3. Volume I. Maps and producing data on 57 fields, with 2 composite logs, clothbound, 139 pp., 1957 10.00
4. Volume II. Maps and producing data on 77 fields, includes Supplement 1, in ring binder, 143 pp., 1963 15.00
5. Supplements 2 through 7 for Volume II, Maps and producing data on 35 fields, 110 pp. 15.00
6. Supplement 8 for Volume II, Maps and producing data on 34 fields, 108 pp., 1980 25.00
7. Volume II, complete with Supplements 2-8, 361 pp., 146 fields 50.00
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FIELD TRIP GUIDEBOOKS

9. Upper Cretaceous Outcrops, Northeast Mississippi and West Central Alabama, Fourteenth Field Trip, 29 pp., May, 1959 4.00
10. Cenozoic of Southeast Mississippi and Southwest Alabama, Fifteenth Field Trip, 52 pp., May, 1960 6.00
11. Cenozoic of Horn Island and the Pascagoula Valley, 10th Annual GCAGS Meeting, 24 pp., October, 1960 2.50
12. The Paleozoics of Northwest Arkansas, Sixteenth Field Trip, 48 pp., May, 1962 5.00
13. Tertiary Type Localities of East-Central Mississippi, 25th GCAGS Meeting, 133 pp., October, 1975 5.00
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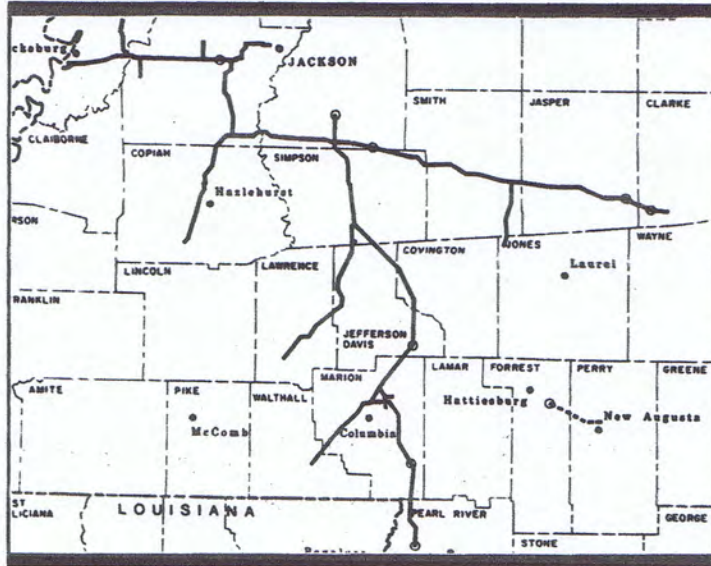
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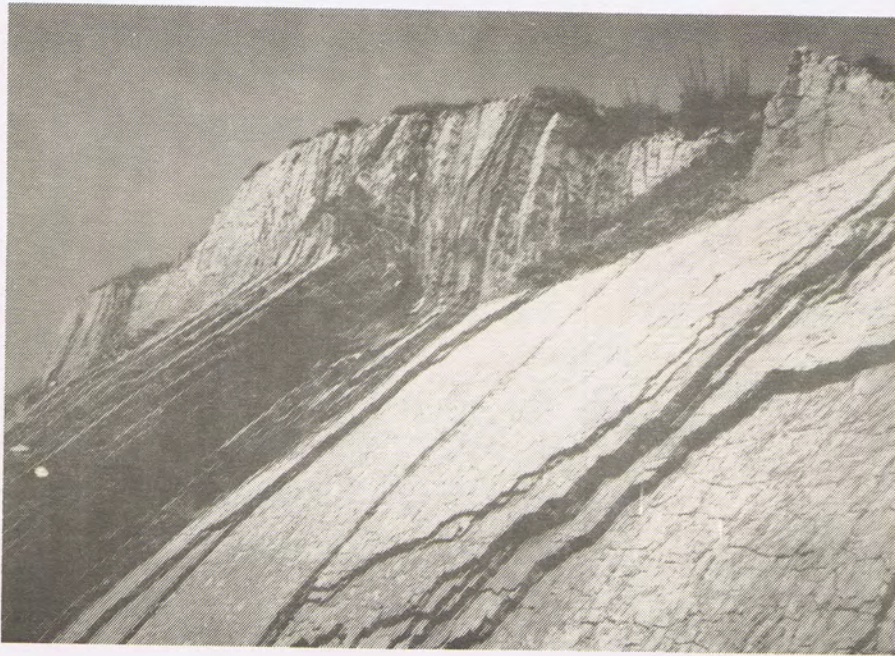


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Volume XXXVII

No. 5

January 1989



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PRESIDENT'S MESSAGE

Well, here it is the end of another year. More importantly, we also face the beginning of a new year-- "brand new, ain't never been used by nobody." As I now reflect on the past year, I have all but shut the door on it in my memory. As I contemplate the new year, I see an open door of opportunity awaiting, full of all sorts of possibilities and potential. Full of its uncertainties, broken dreams, and some failures, 1988 is now history. To dwell upon it is to distract ourselves from the future and the promise it holds. Please pardon me while I wax optimistic, but I see many signs of better times in our industry in the coming year. Let's all do our part, in thought and in action, to make these better times a reality.

Having given my admonition for the year, we now can turn to matters at hand. On the 10th of January, Dr. Roger Sassen from the Basin Research Institute will speak on the Origin of Crude Oil in the Miss-La Wilcox trend. The time will be 11:30 in the Smackover Room at the Petroleum Club, as usual. Please call T.C. at 969-3286 with your reservations for this luncheon.

In the coming weeks, either I or one of your other officers will be contacting some of you to volunteer for committee assignments for some of our upcoming special projects. Please continue your willingness to assist your Society. Thank you.

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SPEAKER

Roger Sassen

TOPIC

Origin of Crude Oil in the
Wilcox Trend of Louisiana and Mississippi:
Evidence of Long-Range Migration

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ORIGIN OF CRUDE OIL IN THE WILCOX TREND OF LOUISIANA AND MISSISSIPPI: EVIDENCE OF LONG-RANGE MIGRATION

Roger Sassen

ABSTRACT

Geochemical characterization of crude oils from Wilcox reservoirs in central Louisiana and southwest Mississippi suggests that they represent a single crude oil family that is distinct when compared to crude oils in deeper Tuscaloosa and Smackover reservoirs. This observation is consistent with geologic constraints that suggest an origin of crude oil from within the Wilcox Group itself. Although shales of the shallow Wilcox Group in central Louisiana and southwest Mississippi contain gas-prone kerogen and are thermally immature, a more oil-prone source facies is present in marine shales of the deep Wilcox Group in southcentral Louisiana. Migration distances from source to reservoir rocks of the downdip Wilcox Trend of southcentral Louisiana appear to be relatively short. However, long-range updip migration (sometimes greater than 100 km) from deeply buried Wilcox source facies provide the best explanation for emplacement of crude oil in the shallow Wilcox Trend of central Louisiana and southwest Mississippi.

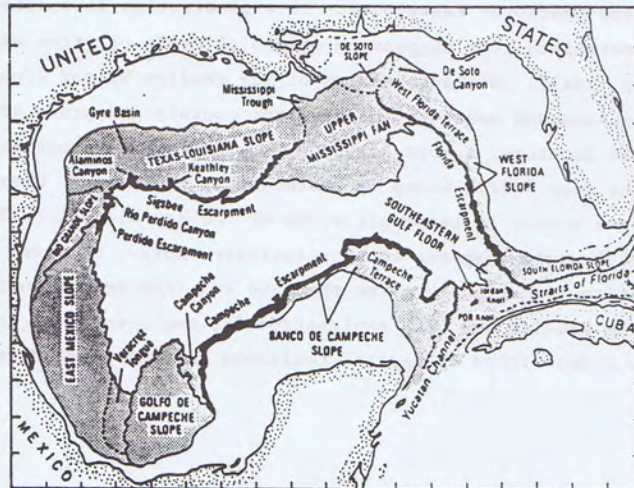
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SUBMIT ALL ABSTRACTS by January 5, 1989 to

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Volume XXXVII

No. 6

February 1989



1988-89

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ABOUT THE COVER:

View of the San Andreas fault along Highway 14 in Palm Dale, California.

PRESIDENT'S MESSAGE

Another month has passed and I am told it is time for more words (not necessarily of wisdom) from yours truly. In the month that has passed, encouraging news in the form of higher crude prices has become a reality; high expectations and higher hopes have been pinned on the Bush administration as it settles down to the business at hand. Even the weather has been an agent of encouragement, enticing me with spring-like days in the supposed dead of winter-- where's all the snow and ice for which we received forebodings late last year? Where's all the general economic malaise and hyperinflation for which all the "experts" have lustily awaited? So much for exact sciences and pinpoint accuracy.

Speaking of accuracy, the Bureau of Geology will host a conference on mapping programs and mapping priorities as pertains to needs of various agencies and institutions of the state. Since this conference takes place in late February, you have plenty of time to contact me with your concerns and/or input regarding this realm of our science. The Bureau is planning to revise the 1969 geologic map of Mississippi, so let me hear from you so I can adequately represent our Society.

On the 14th of February, our noon luncheon speaker will be Alistair R. Brown, an A.A.P.G. distinguished lecturer, who will speak on the "Stratigraphic Interpretation of 3-D Seismic Data". It should prove to be quite interesting, so be sure to call T.C. with your reservations at 969-3286.

Please be advised that there are still positions for which you can volunteer on committees pertaining to several upcoming events, not the least of which is the fiftieth birthday of our Society in November of this year and the fiftieth birthday of Tinsley Field this fall. Each of these observances should be a lot of fun, so volunteer now and avoid the rush!

I see the bottom of the page is near, my pearls of wisdom for this month have turned to gravel, it's lunch time and I'm hungry, so I'll hush.

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TUESDAY, FEBRUARY 14, 1989

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SPEAKER

Alistair R. Brown

TOPIC

Stratigraphy From
3-D Seismic Data

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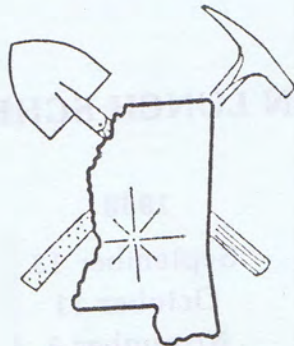
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1988

September 13

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December 13

1989

January 10

February 14

March 14

April 11

May 9

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The Gulf Coast Association of Geological Societies
and
The Gulf Coast Section of SEPM
39th Annual Convention
Corpus Christi, Texas
October 25-27, 1989

Hosted by Corpus Christi Geological Society

Papers should be prepared in accordance with AAPG guidelines; papers and posters should have application to Gulf Coast geology. Accepted papers—and poster abstracts—will be published in GCAGS Transactions. Abstracts must be submitted with answers to the following questions: (1) Has this paper or poster been published previously? (2) If so, where and when, and how does your submission differ from the original? (3) Who will make the presentation? (4) In your opinion, is your paper more applicable to GCAGS or SEPM?

SUBMIT ALL ABSTRACTS by January 5, 1989 to:

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Notification of acceptance will be by February 17 and completed papers will be due by April 5, 1989.

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Mesozoic-Paleozoic Producing Ares of Mississippi and Alabama.
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FIELD TRIP GUIDEBOOKS

9. Upper Cretaceous Outcrops, Northeast Mississippi and West Central Alabama, Fourteenth Field Trip, 29 pp., May, 1959 4.00
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11. Cenozoic of Horn Island and the Pascagoula Valley, 10th Annual GCAGS Meeting, 24 pp., October, 1960 2.50
12. The Paleozoics of Northwest Arkansas, Sixteenth Field Trip, 48 pp., May, 1962 5.00
13. Tertiary Type Localities of East-Central Mississippi, 25th GCAGS Meeting, 133 pp., October, 1975 5.00
14. Mississippi Rocks of the Black Warrior Basin, Seventeenth Field Trip, 79 pp., April, 1978 8.00
15. Tertiary and Upper Cretaceous Depositional Environments, Central Mississippi and West Central Alabama, 33rd Annual GCAGS Meeting, 40 pp., October, 1983 7.50

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_____	103	\$23	_____	All-Convention Luncheon, Monday
_____	104	\$ 9	_____	IMAX Theatre, Monday, 7:00 p.m.
_____	300	\$25	_____	SEPM Awards Dinner, Monday
_____	105	\$ 9	_____	IMAX Theatre, Monday, 8:30 p.m.
_____	500	\$20	_____	DPA Luncheon, Tuesday
_____	400	\$20	_____	EMD Luncheon, Tuesday
_____	301	\$18	_____	SEPM Luncheon, Tuesday
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_____	204	\$28	_____	Cowboys & Collectibles, Tuesday
_____	205	\$18	_____	McNay Museum/Los Patios, Tuesday
_____	206	\$19	_____	International Fashion Flair, Tuesday
_____	207	\$30	_____	South of the Border, Wednesday
_____	208	\$20	_____	Texas Downunder, Wednesday

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_____	603	\$ 50	_____	STGS #3A, Sat., Apr. 22, 8:00 a.m.-12:00 Noon
_____	604	\$ 50	_____	STGS #3B, Sat., Apr. 22, 1:00 p.m.-5:00 p.m.
_____	605	\$ 50	_____	STGS #3C, Sun., Apr. 23, 8:00 a.m.-12:00 Noon
_____	606	\$ 50	_____	STGS #3D, Sun., Apr. 23, 1:00 p.m.-5:00 p.m.
_____	607	\$ 35	_____	STGS/SIPES #4, Sun., Apr. 23
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_____	302	\$ 60	_____	SEPM #1A, Sat., Apr. 22
_____	303	\$ 60	_____	SEPM #1B, Sun., Apr. 23
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_____	611	\$365	_____	STGS #4, Wed., Apr. 26-Sun., Apr. 30
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_____	308	\$ 53	_____	GSC/SEPM #2, Sat., Apr. 22
_____	309	\$ 55	_____	GSC/SEPM #3, Thurs., Apr. 27
_____	310	\$300	_____	PM/SEPM #1, Wed., Apr. 26-Sun., Apr. 30
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No. 7

March 1989



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PRESIDENT'S MESSAGE

My how time flies! It seems only last week that our editor, Evelyn Stewart, informed me that another message was due for the bulletin. In the time since our last issue, many events have occurred which directly and for the most part adversely affect our industry, particularly with respect to oil and gas exploration in the State of Mississippi.

One of these events was the move of the Mississippi Oil and Gas Board to its present quarters located in the flood plain of the Pearl River. Far from the dry confines of the 14th floor of the Sillers Building, its previous home, the Board has seen fit (through a glass darkly, albeit) to take all OUR valuable records and park them less than a mile from the banks of the Mighty Pearl. The present location is often subject to flash flooding from a heavy rain, and is subject to total inundation from floods on the proportion of those which occurred in 1961, 1979, etc. (the "One hundred year floods"). Was it a dream (or nightmare) which precipitated the move? Is the Board not aware that the majority of these records, if ever wet, will be worthless and irreplaceable? Do they care?

And speaking of the Board and OUR records, it appears by the latest legere de main that OUR records are now all but inaccessible to the little guy. Elsewhere in this issue I have asked Evelyn to include, in their entirety, new directives from the Board which further tie our hands and hamper our efforts at helping pull the Mississippi oil and gas industry out of the doldrums. If you don't think the records are getting out of reach to the "little guy", how does ONE YANKEE DOLLAR per page for copies of a portion of a log hit you? (Five copies per log maximum, please) Talk about kicking a guy when he's down, check out the increased charges on everything that you and I use or need from the Board. And the one about providing the Board with a free copy of any of their maps you get reproduced-- are they going to paper the walls with these paper prints? Come on now!!

The "logic" of these moves, if any, totally escapes me.

Now I must put away my soapbox for more positive things-- among them the increase in crude prices lately--now about that?

The latest round of price improvements may not last long, but I'm not counting the hours-- I'm enjoying it. I am encouraged by the news that some deals are selling and that most everyone's attitude seems to be improving, with actions to back up such feelings. Gas remains a bit soft, but we continue to await that long-sought rupture of "the Bubble".

Mark your calendars now for the MGS Spring Fling. The date is May 19, 1989, and the place is Fowler's Lodge on the Reservoir. More complete details will be forthcoming, but go ahead and mark your calendar now so you won't plan anything else for that Friday.

And while you are marking reservations, go ahead and call T.C. Rader's office at 969-3286 with your reservations for this month's noon luncheon, to be held on March 14th, at 11:30 at the Petroleum Club. Mr. Wendell Johnson, formerly head of the Geology Department at Millsaps College, will be our speaker. I'm sure you will want to be there, so call T.C. with your reservations.

I suppose I should end this epistle before I step on any more toes, but I must ask one thing of each of you-- let me or any of your officers know of your reaction or position on the recent developments at the Oil & Gas Board. I don't believe we are through with these issues yet, and we must know that we speak for you, our membership.

By the way, Mr. Will Harper has volunteered to act as our Chairman for the Tinsley 50th Anniversary Observance. Say yes if he asks you to serve, or don't wait for him to ask--just volunteer. Volunteers are still needed to assist in planning the 50th birthday of our Society, as well.

See you on the fourteenth.

Stanley King



Mississippi Geological Society

NOON MEETING

Tuesday, March 14, 1989

Smackover Room, Petroleum Club

SPEAKER

Wyndell B. Johnson

TOPIC

Adventures In Brazil

*Please notify T. C. Rader (969-3286) of your
attendance so adequate seating can be arranged.*



ABSTRACT

Adventures In Brazil

A trip to Brazil in September, 1988 afforded an excellent opportunity to view a variety of geology in the Parana Basin and the Province of Minas Gerais. The Parana Basin is noted for the basalt with its spectacular amethyst, geodes and Brazilian agates. Minas Gerais is outstanding for granite and granite-gneiss and exotic pegmatite minerals. Spectacular quartz (including many varieties) tourmaline, aquamarine and many rare minerals are recognized in the Province of Minas Gerais. As a result, many lapidary shops fashion many beautiful stones from the pegmatitic materials. Iron ore is abundant and represents one of the significant deposits in Brazil.



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SAN ANTONIO

February 23, 1989

Mr. Stanley King, President
Mississippi Geological Society
P.O. Box 422
Jackson, MS 39205

Dear Mr. King,

In behalf of the South Texas Geological Society I would like to extend a personal invitation to you and your membership to attend the AAPG Annual Convention here in San Antonio, Texas on April 23-25 1989. We are excited and pleased to be hosting this convention and hope you and a large number of your members will be able to attend.

The technical and poster sessions include almost 500 papers plus we have 13 pre- and post-convention field trips and a wide variety of short courses. We encourage all of you to bring your spouses to share with you the entertainment that we have planned for you.

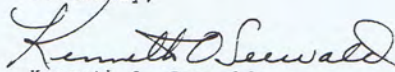
In addition to the Alamo, the missions, our great River Walk, and other amenities you enjoyed at the last convention here, we have added the new IMAX Theatre, Sea World, and a great new Rivercenter Mall only one block from the Convention Center.

Spouse activities during the convention include eight different tours that extend from the beautiful Hill Country of Texas to South of the Border in Mexico. A visit to San Antonio would not be complete without our traditional Night In Old San Antonio at La Villita where you can indulge yourself with different varieties of German, Mexican, and other international foods and a variety of drinks while enjoying the music of Mariachis and Country-Western bands.

Come to the convention a day or two early and plan to participate in the final two days of San Antonio's famous Fiesta week where you can watch the spectacular Battle of Flowers Parade on Friday afternoon and the Flambeau River Parade on Saturday night. Please register early if you want rooms for April 21 and 22.

Once again let me extend my personal invitation for you to attend what we know will be a great convention. Pre-registration information from AAPG indicates it will probably be the best attended convention we have ever had in San Antonio. Please join us for a great time, and the opportunity to visit with your associates from around the world.

Sincerely,


Kenneth O. Seewald
President

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RESEARCHING OF RECORDS, PROVIDING COPIES
AND CHARGES THEREFOR

SECTION I. REQUEST FOR RECORDS

A. A request for a public record of the Mississippi State Oil & Gas Board may be made orally or in writing, however, the agency reserves the right to require a request to be made in writing, and shall be addressed to the Mississippi State Oil & Gas Board.

B. A request must reasonably describe the desired record, including the approximate date.

SECTION II. TIME LIMITATIONS

Within fourteen (14) working days (excluding Saturdays, Sundays and legal public holidays) of the receipt of a request and the prepayment of cost, the Mississippi State Oil & Gas Board will respond to requests for copies of specifically identified documents which may lawfully be released.

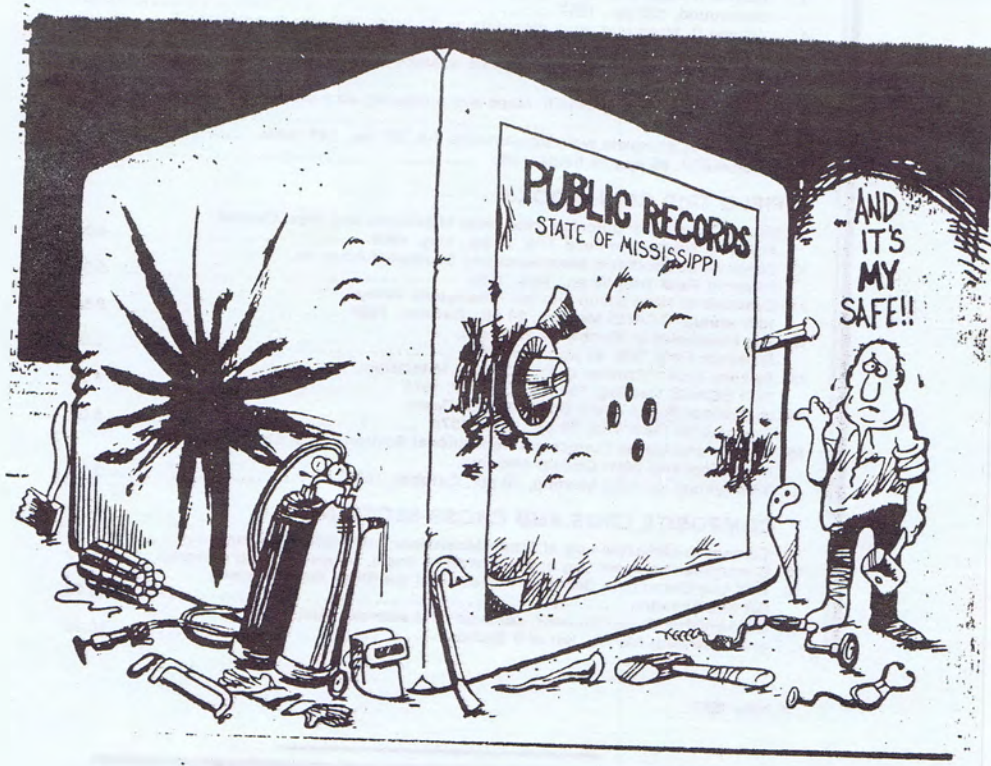
SECTION III. FEES

A. Charges for services rendered in response to information requests shall be as follows:

1. A minimum charge of five (5) dollars for any invoices billed.
2. Charges for searching of records, and copying at the rate of ten (10) dollars per hour per person.
3. Copies of forms and letters made by electrostatic or xerographic copy machines - 8 1/2 by 11 and 8 1/2 x 14 - at the cost of fifty (50) cents per copy; oversized copies at the rate of one (1) dollar per copy.
4. Telephone requests for information from well files will be limited to three (3) calls per day. Copies of the information provided will be forwarded with a statement for the applicable charges. Request for information from more than three (3) wells must be in writing.
5. Continuous copying of a well log shall be at the rate of sixty-five (65) cents per linear foot. Copies of any portion of a well log will be copied on either 8 1/2 x 11 or 8 1/2 x 14 paper at the rate of one (1) dollar per page. All requests shall be numbered in order of receipt and filled in sequence.
6. Appeals of Board Orders shall have the following charges to the appellant:
 - a) Copying of any materials will be at the rates expressed above;
 - b) Binding cost of the appeal record;
 - c) A charge of twenty-five (25) cents per mile plus time of the employee to file the document in Chancery Court (other than Hinds County Chancery Court).
 - d) This does not include the court reporter's fee for transcription.

7. Mailing, postage, and envelopes or boxes will be charged.
8. The State Oil & Gas Board Statutes, Rules of Procedure and Statewide Rules and Regulations Book shall have a cost of twenty (20) dollars each plus two (2) dollars for the handling and mailing of each book.
9. Costs of production reports:
 - a) Subscription for the twelve (12) monthly production reports, one (1) Annual Production Report and one (1) Book of Maps - \$100.00 per year.
 - b) One copy of a monthly production report - \$8.50.
 - c) One copy of an annual production report - \$25.00
 - d) One copy of a book of maps - \$25.00.
10. A cost of four (4) dollars will be charged for each "pipeline map" plus one (1) dollar for the handling and mailing of same.
11. A charge of five (5) dollars will be made to the reproduction company each time a base map is reproduced. A paper copy of the base map as reproduced shall be provided to the Board at no cost.
12. A charge of five (5) dollars shall be made for each certification of true copies of agency records.
 - B. When a response to a request requires services or materials for which no fee has been established, the actual cost of such services or materials, including staff time, to the Mississippi Oil & Gas Board will be charged.
 - C. Fees for searches and copies are payable in advance, unless arrangements for subsequent payments are made.
 - D. Remittance shall be in the form either of a personal check or bank draft drawn on a bank in the United States, a postal money order or cash. Remittance shall be made payable to the order of the Mississippi State Oil and Gas Board. The agency will not assume responsibility for cash which is lost in the mail. Any check returned for lack of funds, etc. shall have an additional fee of twenty-five (25) dollars charged to the party or company drafting same.
 - E. Credit Services will not be provided to parties with past due balances with the Board.
 - F. A receipt for fees paid will be given only upon request. No refund will be made for services rendered.

The foregoing Regulation has been developed as instructed during the regular November 1988 Board Meeting (Book 86, Page 399, Item 4) and promulgated by the Board at the regular December 1988 Board Meeting (Book 82, Page 4, Item 6, Pages 5 and 6), and becomes effective on March 1, 1989, superseding the November 1983 Regulation.



PUBLICATION LIST

SPECIAL VOLUMES

1. Mississippi Geological Society Photo Directory, 1981 \$ 2.00
2. Wilcox Fields of Southwest Mississippi, Maps and production data on 171 fields, in ring binder, 350 pp., 1969 28.00
3. Mesozoic-Paleozoic Producing Ares of Mississippi and Alabama. Volume I. Maps and producing data on 57 fields, with 2 composite logs, clothbound, 139 pp., 1957 10.00
4. Volume II. Maps and producing data on 77 fields, includes Supplement 1, in ring binder, 143 pp., 1963 15.00
5. Supplements 2 through 7 for Volume II, Maps and producing data on 35 fields, 110 pp. 15.00
6. Supplement 8 for Volume II, Maps and producing data on 34 fields, 108 pp., 1980 25.00
7. Volume II, complete with Supplements 2-8, 361 pp., 146 fields 50.00
- ★ 8. Volume III, 85 pp., 46 fields, 1987 50.00

FIELD TRIP GUIDEBOOKS

9. Upper Cretaceous Outcrops, Northeast Mississippi and West Central Alabama, Fourteenth Field Trip, 29 pp., May, 1959 4.00
10. Cenozoic of Southeast Mississippi and Southwest Alabama, Fifteenth Field Trip, 52 pp., May, 1960 6.00
11. Cenozoic of Horn Island and the Pascagoula Valley, 10th Annual GCAGS Meeting, 24 pp., October, 1960 2.50
12. The Paleozoics of Northwest Arkansas, Sixteenth Field Trip, 48 pp., May, 1962 5.00
13. Tertiary Type Localities of East-Central Mississippi, 25th GCAGS Meeting, 133 pp., October, 1975 5.00
14. Mississippi Rocks of the Black Warrior Basin, Seventeenth Field Trip, 79 pp., April, 1978 8.00
15. Tertiary and Upper Cretaceous Depositional Environments, Central Mississippi and West Central Alabama, 33rd Annual GCAGS Meeting, 40 pp., October, 1983 7.50

COMPOSITE LOGS AND CROSS-SECTIONS

16. Composite Mesozoic Log of South Mississippi and South Alabama 2.00
17. Composite Paleozoic Log of Black Warrior Basin, Mississippi and Alabama 2.00
18. Well Log Correlation Sections, Paleozoic of the Black Warrior Basin, Set of 5 Sections 10.00
19. Stratigraphic Cross-Sections, Jurassic of Mississippi, Alabama and Northwest Florida, Set of 9 Sections 50.00

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No. of Tickets	Event Number	Fee Per Person	Total Cost	
		\$150	_____	Member Registration
		\$200	_____	Nonmember Registration
		\$ 35	_____	Spouse Registration
			_____	Name _____
		\$ 20	_____	Student Registration
			_____	Special Events
_____	102	\$ 9	_____	IMAX Theatre, Sunday, 8:30 p.m.
_____	103	\$23	_____	All-Convention Luncheon, Monday
_____	104	\$ 9	_____	IMAX Theatre, Monday, 7:00 p.m.
_____	300	\$25	_____	SEPM Awards Dinner, Monday
_____	105	\$ 9	_____	IMAX Theatre, Monday, 8:30 p.m.
_____	500	\$20	_____	DPA Luncheon, Tuesday
_____	400	\$20	_____	EMD Luncheon, Tuesday
_____	301	\$18	_____	SEPM Luncheon, Tuesday
_____	106	\$25	_____	Safari at Zoo, Tuesday
_____	107	\$30	_____	Night in Old San Antonio, Tuesday
			_____	Spouse Activities
			_____	(Spouse Registration Required)
_____	201	\$20	_____	Look at the Past, Monday
_____	202	\$23	_____	Kaffee Klatsch, Monday
_____	203	\$17	_____	Heritage & Blossoms, Monday
_____	204	\$28	_____	Cowboys & Collectibles, Tuesday
_____	205	\$18	_____	McNay Museum/Los Patios, Tuesday
_____	206	\$19	_____	International Fashion Flair, Tuesday
_____	207	\$30	_____	South of the Border, Wednesday
_____	208	\$20	_____	Texas Downunder, Wednesday

No. of Tickets	Event Number	Fee Per Person	Total Cost	Short Courses
_____	600	\$150	_____	STGS #1, Sat., Apr. 22-Sun., Apr. 23
_____	601	\$ 90	_____	STGS #2A, Sat., Apr. 22
_____	602	\$ 90	_____	STGS #2B, Sun., Apr. 23
_____	603	\$ 50	_____	STGS #3A, Sat., Apr. 22, 8:00 a.m.-12:00 Noon
_____	604	\$ 50	_____	STGS #3B, Sat., Apr. 22, 1:00 p.m.-5:00 p.m.
_____	605	\$ 50	_____	STGS #3C, Sun., Apr. 23, 8:00 a.m.-12:00 Noon
_____	606	\$ 50	_____	STGS #3D, Sun., Apr. 23, 1:00 p.m.-5:00 p.m.
_____	607	\$ 35	_____	STGS/SIPES #4, Sun., Apr. 23
_____	813	\$800	_____	AAPG #1, Fri., Apr. 21-Sun., Apr. 23 (AAPG member)
_____	814	\$850	_____	AAPG #1, (Nonmember)
_____	302	\$ 60	_____	SEPM #1A, Sat., Apr. 22
_____	303	\$ 60	_____	SEPM #1B, Sun., Apr. 23
_____	304	\$195	_____	SEPM #2, Sat., Apr. 22-Sun., Apr. 23
_____	305	\$ 95	_____	SEPM #3, Sun., Apr. 23 (professional)
_____	306	\$ 35	_____	SEPM #3 (student)

The Student Chapter Committee is offering the following separately or as a package. Select one:

_____	800	\$ 25	_____	SC Course #1, Sun., Apr. 23
_____	801	\$ 40	_____	SC Trip #1, Sat., Apr. 22
_____	802	\$ 50	_____	Package of Course & Trip
Field Trips				
_____	608	\$215	_____	STGS #1, Fri., Apr. 21-Sat., Apr. 22
_____	609	\$285	_____	STGS #2, Fri., Apr. 21-Sat., Apr. 22
_____	610	\$ 70	_____	STGS #3, Sun., Apr. 23
_____	611	\$365	_____	STGS #4, Wed., Apr. 26-Sun., Apr. 30
_____	612	\$ 55	_____	STGS #5, Thurs., Apr. 27
_____	613	\$285	_____	STGS #6, Thurs., Apr. 27-Sat., Apr. 29
_____	307	\$561	_____	GSC/SEPM #1, Tues., Apr. 18-Sat., Apr. 22
_____	308	\$ 53	_____	GSC/SEPM #2, Sat., Apr. 22
_____	309	\$ 55	_____	GSC/SEPM #3, Thurs., Apr. 27
_____	310	\$300	_____	PM/SEPM #1, Wed., Apr. 26-Sun., Apr. 30
_____	311	\$230	_____	PM/SEPM #1, Wed., Apr. 26-Sun., Apr. 30
_____	401	\$ 30	_____	EMD #1, Thurs., Apr. 27
_____	402	\$ 40	_____	EMD #2, Thurs., Apr. 27
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MISSISSIPPI GEOLOGICAL SOCIETY

Volume XXXVII

No. 8

April 1989

1988-89

PRESIDENT'S MESSAGE

Here it is spring, the sun is shining in between thunderstorms, and crude prices are holding steady, even up a bit. Could this be that long-awaited break we've all been waiting for? It just could be. Ever the optimist, I cannot remember a time in the last few years when I could see such promise on the horizon-- yet there seem to be clouds hanging around that just will not seem to go away. Having spoken recently with several people in the major 'oil' cities, I sense a feeling of optimism in the industry, and yet at the same time twinges of despair, depression, and outright disgust. It seems as though this is a good time to be prospecting, yet this underlying tone of pessimism has left many wondering if our industry will ever make a comeback, even a small one. Tax treatment problems, ever-mounting paperwork to file with these, those, and the others, mounting hindrances from regulatory agencies and eekologists, along with some timidity on the part of some companies to spend exploration dollars has left many wondering what ever possessed them to major in geology in the first place. I am sorry they feel that way, but let them wonder--most of us are quite sure as to our reasons. Think about it--very few will be left to do the work of many.

In this column last month your attention was directed to some of the problems infecting the Oil & Gas Board-- I have heard from many of you regarding those matters mentioned, as well as others. For each of you who have taken the time and expended the effort to write as requested, thank you. For each of you who haven't--why not??? You may not be affected now, but I assure you at some point in the future you will be. Remember the old quote:"We must all stand together or we will hang separately." Retribution-wise? Probably not. Financially, yes.

This month our noon luncheon will be held on April 11, at 11:30 AM in the Smackover Room in the Petroleum Club. Our speaker will be Danny Harrelson, who will inform us of the "Hydrocarbon Potential of the Wiggins Anticline". Be sure and call T.C. at 969-3286 with your reservations. See you there!

Stanley King



Mississippi Geological Society

NOON MEETING

Tuesday, April 11, 1989

Smackover Room, Petroleum Club

SPEAKER

Danny W. Harrelson

TOPIC

Hydrocarbon Potential of
the Wiggins Anticline

*Please notify T. C. Rader (969-3286) of your
attendance so adequate seating can be arranged.*





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February 23, 1989

Mr. Stanley King, President
Mississippi Geological Society
P.O. Box 422
Jackson, MS 39205



Dear Mr. King,

In behalf of the South Texas Geological Society I would like to extend a personal invitation to you and your membership to attend the AAPG Annual Convention here in San Antonio, Texas on April 23-26 1989. We are excited and pleased to be hosting this convention and hope you and a large number of your members will be able to attend.

AMERICAN ASSOCIATION
OF PETROLEUM GEOLOGISTS
HOST SOCIETY:
SOUTH TEXAS
GEOLOGICAL SOCIETY

The technical and poster sessions include almost 500 papers plus we have 13 pre- and post-convention field trips and a wide variety of short courses. We encourage all of you to bring your spouses to share with you the entertainment that we have planned for you.

In addition to the Alamo, the missions, our great River Walk, and other amenities you enjoyed at the last convention here, we have added the new IMAX Theatre, Sea World, and a great new Rivercenter Mall only one block from the Convention Center.

Spouse activities during the convention include eight different tours that extend from the beautiful Hill Country of Texas to South of the Border in Mexico. A visit to San Antonio would not be complete without our traditional Night In Old San Antonio at La Villita where you can indulge yourself with different varieties of German, Mexican, and other international foods and a variety of drinks while enjoying the music of Mariachis and Country-Western bands.

Come to the convention a day or two early and plan to participate in the final two days of San Antonio's famous Fiesta week where you can watch the spectacular Battle of Flowers Parade on Friday afternoon and the Flambeau River Parade on Saturday night. Please register early if you want rooms for April 21 and 22.

Once again let me extend my personal invitation for you to attend what we know will be a great convention. Pre-registration information from AAPG indicates it will probably be the best attended convention we have ever had in San Antonio. Please join us for a great time, and the opportunity to visit with your associates from around the world.

Sincerely,

Kenneth O. Seewald
President

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CALL FOR PAPERS ON FIELD DEVELOPMENT AND DEVELOPMENT/PRODUCTION GEOLOGY

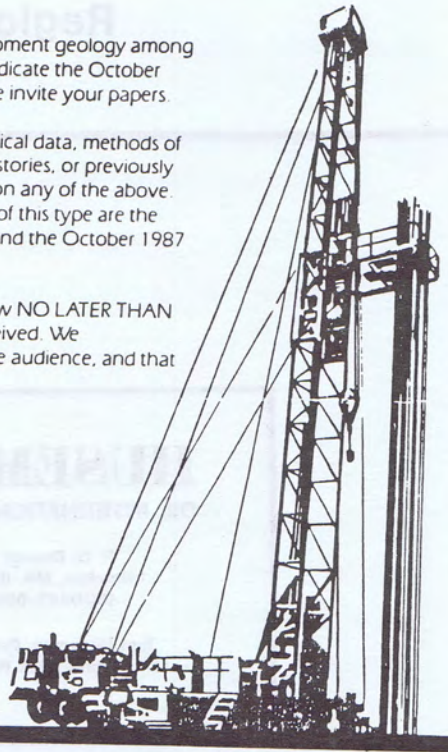
Because of the rising interest in development geology among our members, AAPG plans again to dedicate the October issue of the BULLETIN to that topic. We invite your papers.

Papers can highlight techniques, technical data, methods of definition, drilling development case histories, or previously written internal company documents on any of the above. Examples of recently published papers of this type are the Self et al paper (May 1986 BULLETIN) and the October 1987 and 1988 BULLETIN papers.

Papers must be received to begin review NO LATER THAN JUNE 1, 1989, and are now being received. We encourage papers that appeal to a wide audience, and that demonstrate broad interest.

James A. Helwig, Editor

Submit your papers to:
June Chronos, Managing Editor
AAPG BULLETIN
P.O. Box 979
Tulsa, Oklahoma 74101-0979
U.S.A.



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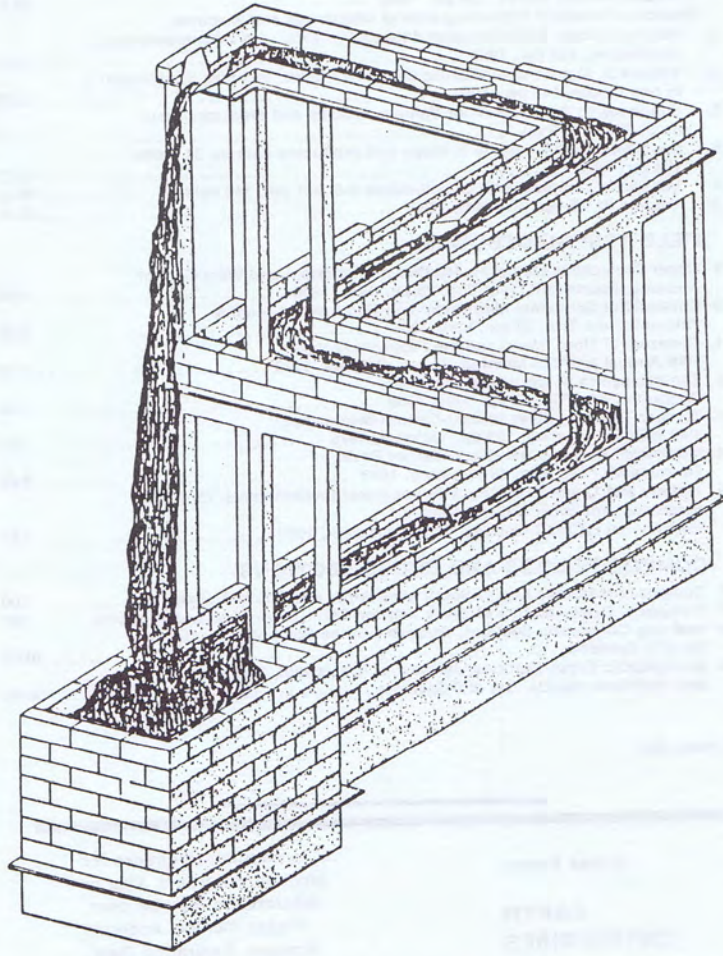


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1. Mississippi Geological Society Photo Directory, 1981 \$ 2.00
2. Wilcox Fields of Southwest Mississippi, Maps and production data on 171 fields, in ring binder, 350 pp., 1969 28.00
3. Mesozoic-Paleozoic Producing Ares of Mississippi and Alabama. Volume I. Maps and producing data on 57 fields, with 2 composite logs, clothbound, 139 pp., 1957 10.00
4. Volume II. Maps and producing data on 77 fields, includes Supplement 1, in ring binder, 143 pp., 1963 15.00
5. Supplements 2 through 7 for Volume II, Maps and producing data on 35 fields, 110 pp. 15.00
6. Supplement 8 for Volume II, Maps and producing data on 34 fields, 108 pp., 1980 25.00
7. Volume II, complete with Supplements 2-8, 361 pp., 146 fields 50.00
- ★ 8. Volume III, 85 pp., 46 fields, 1987 50.00

FIELD TRIP GUIDEBOOKS

9. Upper Cretaceous Outcrops, Northeast Mississippi and West Central Alabama, Fourteenth Field Trip, 29 pp., May, 1959 4.00
10. Cenozoic of Southeast Mississippi and Southwest Alabama, Fifteenth Field Trip, 52 pp., May, 1960 6.00
11. Cenozoic of Horn Island and the Pascagoula Valley, 10th Annual GCAGS Meeting, 24 pp., October, 1960 2.50
12. The Paleozoics of Northwest Arkansas, Sixteenth Field Trip, 48 pp., May, 1962 5.00
13. Tertiary Type Localities of East-Central Mississippi, 25th GCAGS Meeting, 133 pp., October, 1975 5.00
14. Mississippi Rocks of the Black Warrior Basin, Seventeenth Field Trip, 79 pp., April, 1978 8.00
15. Tertiary and Upper Cretaceous Depositional Environments, Central Mississippi and West Central Alabama, 33rd Annual GCAGS Meeting, 40 pp., October, 1983 7.50

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Registration fee is \$50.00 per person. Make check payable to Mississippi Oil & Gas Institute, and send to P.O. Box 55601, Jackson, Mississippi 39296-5601. Refunds will be made for cancellations received on or before April 14, 1989. Cost is \$60.00 per person at the door. For additional information call (601) 948-6800.



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MISSISSIPPI GEOLOGICAL SOCIETY

Volume XXXVII

No. 9

May 1989

1988-89

PRESIDENT'S MESSAGE

Time, it is said, flies. I for one will not argue with that observation. It seems only a short time ago that my tenure as President of our Society began, and here it is almost over. I will not here list accomplishments and completed projects--that remains for someone else to evaluate. I will say that my term as your president has been filled with constant planning for the future of our Society, as well as attention to problems which have reared their ugly head. Many of these problems have been resolved--some are still receiving attention, and probably will for some time. Only the concerted efforts of our Society as a whole will bring results in these areas. Suffice it to say that this past year has been a busy one and has enabled me to better appreciate the geologic community more than previously. I am filled with a sense of gratitude for the honor of having served as your president, and here wish to thank all those who have made my job easier-- fellow officers, committee chairmen (and chairwomen), volunteers for the various projects, and all others who have lent a helping hand. Thank you one and all. I am looking forward to our new officers beginning their terms and continuing the tradition of our Society.

Speaking of new officers, in this bulletin you will find a slate of candidates for the various offices of the Society for the year 1989-1990. Please evaluate each one and then come prepared to vote at the May noon luncheon meeting to be held on the 9th of May in the Smackover Room in the Petroleum Club. This year we are departing from previous tradition somewhat in that the voting will be done at the noon luncheon meeting, and **NOT** at the Spring Fling. The results of the election will be published in the June bulletin and will be announced at the Spring Fling. I believe the Nominating Committee has come up with an excellent slate of candidates, so please plan to be there and cast your ballot.

And about the May 9th noon luncheon-- on that day we will be treated to a "roundtable" discussion by four of our colleagues. These four geologists: Theron Crockett, Verne Culbertson, Marvin Oxley, and George Vockroth, have graciously agreed to expel and expound their complete knowledge on the generation and migration of crude oil in various trends, particularly in the Mississippi Salt Basin Smackover. I anticipate a lively and thought-provoking exposition of the accumulated knowledge of these four men.

Please be sure to call T.C. Rader at 969-3286 to make reservations for this luncheon meeting at which ballots will be cast for next year's officers.

On the 19th of May, your Society will hold the Annual MGS Spring Fling. The event will be held at Fowler's Lodge on the Reservoir, with refreshments starting around 4:30 and dinner being served at 6:00 PM. There will be door prizes for the ladies and plenty to eat for all, so come on out and enjoy.

In this issue you will notice that the Society's bylaws have been printed in their entirety, with proposed changes noted. Soon you will be receiving a copy in the mail with a letter of explanation. Please take a few minutes to read and note the changes. As has been pointed out on several occasions, these changes are simply to put day-to-day practice and bylaw provision into synchronization. All changes are noted on the enclosed copy. Your vote does count, since 2/3 of the full membership must approve of the changes. The last time this was attempted, the yes votes were approximately ten to one over no votes, but there simply were not 2/3 of the membership who bothered to care. Let's not let that be the case this time.

As far as an update, the Tinsley/MGS 50th Anniversary Celebration plans are coming along quite well. Expect to see more details in future issues of this bulletin. Plans are underway also to host the G.C.A.G.S. Convention in Jackson in October, 1992. Yes, that is a while off yet, but plans must be made now. As always, your participation is vital to the success of these endeavours.

Thank you again for the privilege of serving as President of our Society. I hope some good has been accomplished and that at least some of the objectives of our Society have been accomplished.

Stanley King

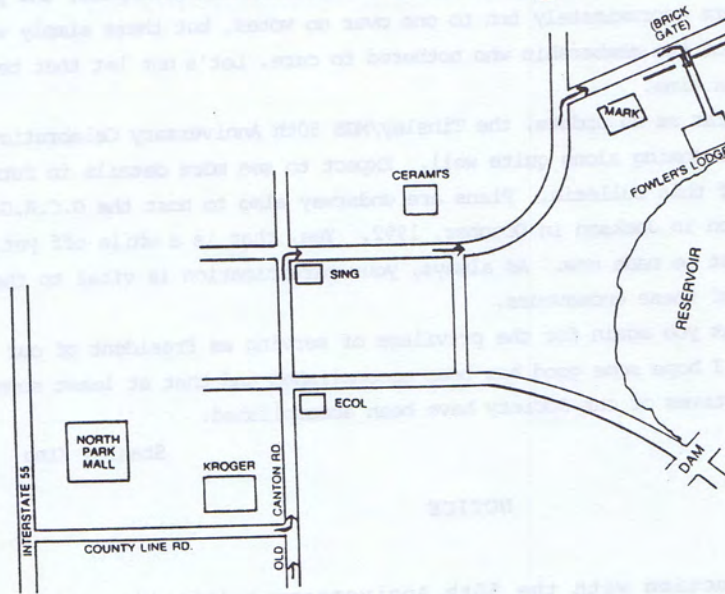
NOTICE

In conjunction with the 50th Anniversary celebration of the discovery of Tinsley Field, the Society is arranging for space at the Mississippi Agricultural and Forestry Museum to display artifacts, tools, pictures, etc., relating to the oil and gas industry in Mississippi. We are requesting items to be loaned to the Society for temporary display at the Museum, as well as donations to the Museum itself for a permanent display of the Mississippi oil and gas industry.

If you have any appropriate items and would like to lend them to the Society for this purpose, or donate them to the Museum, please contact Gene Taylor (969-2117), Bernie Holman (948-2056), or Wil Harper (878-2121).

SPRING FLING

Friday, May 19
Fowler's Lodge



4:30 p.m. - Refreshments

6:30 p.m. - Dinner

Wives, Dates, Sweethearts Invited

Please phone T. C. Rader with your reservations

COST: \$5 per Person



Mississippi Geological Society

NOON MEETING

Tuesday, May 9, 1989

Smackover Room, Petroleum Club

SPEAKERS

Theron Crockett
Verne Culbertson
Marvin Oxley
George Vockroth

TOPIC

Crude Oil Generation and Migration

Please notify T. C. Rader (969-3286) of your attendance so adequate seating can be arranged.

NOTE: At this meeting ballots will be cast for next year's officers.



CANDIDATES FOR MISSISSIPPI GEOLOGICAL SOCIETY OFFICES
1989-1990

SECRETARY

Todd Hines

Education:
BS Geology, Millsaps 1985

Experience:
Moon & Hines 1985 - Present

Professional Associations:
MGS, AAPG

R. K. "Kirk" Sparkman

Education:
BS Geology, Univ of Alabama 1979

Experience:
P. E. LaMoreaux & Assoc. 1979-81
OXY USA Inc. 1981 - Present

Professional Associations:
MGS, AAPG

TREASURER

Steve Ingram

Education:
BS Geology, Millsaps 1985
Geology Dept. Minerology Prize 1983
Union of California Award 1985

Experience:
Mississippi State Department of Health
Shiloh Oil and Gas

Professional Associations:
MGS, AAPG

Andy Sylte

Education:
BS Geology, Florida State 1982

Experience:
Hughes Eastern Corp. 1982 - Present
Certified Geologist in Florida

Professional Associations:
MGS, AAPG
MGS Projection Chairman 1985

SECOND VICE PRESIDENT

Peter H. Lufholm, Sr.

Education:
BA Geology, Univ of Minnesota 1972
MS Geology, Northern Arizona Univ 1975
Post-MS no degree, Tulsa Univ 1977

Experience:
OXY USA Inc. 1974 - Present

Professional Associations:
AAPG Alternate Delegate, GSA
MGS Treasurer 1988-1989, Editor 1987-88

Steve Champlin

Education:
Mississippi State 1972-75
BS Alabama University 1976

Experience:
Gulf Oil 1977-79
Getty Oil 1979-80
Dixie Energy 1980-82
Independent 1982 - Present

Professional Associations:
MGS Secretary 1987-88

FIRST VICE PRESIDENT

Jim Files

Education:
BS Geology, Alabama 1972
MS Geology, Alabama 1975

Experience:
Union of California 1975-81
Inexco 1981-86
Pruet Oil Company 1986 - Present

Professional Associations: AAPG, MGS Treasurer
AAPG, MGS Treasurer 1987-88, MGS 2nd VP
MGS Treasurer 1988-89

Neil Barnes

Education:
BS Geology, LSU 1978
Will receive MBA Millsaps 1989

Experience:
Texaco 1978-82
ANR & Coastal 1982 - Present

Professional Associations:
AAPG, NOG, SEPM, SPE, MGS

PROPOSED REVISIONS

BYLAWS OF THE MISSISSIPPI GEOLOGICAL SOCIETY, INC.

ARTICLE I - NAME AND AFFILIATION

The name of the Society shall be "The Mississippi Geological Society, Inc." It shall be affiliated with the American Association of Petroleum Geologists.

ARTICLE II - OBJECTIVES

The objects of this Society are: (1) the stimulation of interest in geology and related sciences; (2) the encouragement of scientific research among members; (3) the promotion of social and professional fellowship among members; (4) the dissemination and discussion of geological information; and (5) the Society shall not be operated for profit and no financial benefits of any nature shall ever accrue to the members thereof.

ARTICLE III - MEMBERSHIP

Section I: The membership of this organization shall be made up of active members, associate members, and honorary members.

Section II: In order to be eligible for active membership, an applicant shall: (1) have a degree in geology or an allied science from a recognized college or university and shall be directly engaged in the application of geology, or shall (2) have been primarily engaged in geological work during at least the preceding five years. These requirements shall not apply to any charter member of the Society as reflected by the June 16, 1940 membership list.

Section III: Any person shall be eligible to associate membership who is actively engaged in geological or related work. Junior, senior, and graduate level geology students in a recognized university or college shall also be eligible to associate membership.

Section IV: Honorary Members. The Board of Directors may from time to time elect, by unanimous vote of the Board, as honorary members of the Mississippi Geological Society, Inc. persons who are present or past members and have contributed distinguished services to the Society. It is not intended or desirable that there should be a large or promiscuous number of such members, but that it should be considered an honor to receive from the Society an honorary membership as a token award in appreciation and esteem for meritorious services. Honorary members shall not be required to pay dues and may enjoy all privileges of the Society.

Section V: Any member may be suspended or dropped from the membership of the Society for misconduct or actions harmful to the Society; action to be taken at the discretion of the Board of Directors by a majority vote of the Board. Such charges shall be made in writing to the member, who may protest such charges within 30 days from the date which they were mailed. After the 30 days have expired, the Board of Directors may expel such member by a majority vote of the Board. The member may resign before the end of the 30 days, at which time the foregoing proceedings shall automatically terminate.

ARTICLE IV - OFFICERS AND BOARD OF DIRECTORS

Section I: Officers shall be a President, a First Vice President, a second Vice President, a Treasurer, and a Secretary. These, together with the past President shall constitute the Board of Directors. If the past President for any reason shall be unable to serve as a member of the Board of Directors, the President shall fill the vacancy by the appointment of the next available preceding past President. No officer shall succeed himself in office, with the exception of the First Vice President who after having succeeded to the Presidency due to a vacancy in that office, may upon election, serve a full term as President.

Section II: The duties of the President shall be to preside at all meetings, maintain order, call special meetings subject to the approval of the Board of Directors, appoint all committees, and shall delegate members to represent the Society. The President may serve on any committee. The President, together with the Treasurer, shall sign all checks, drafts, contracts, and all other obligations of the Society. In the temporary absence of any other officer of the Society, the President shall have the power to appoint a member to assume duties pro tempore.

Section III (a): The First Vice President shall assume the office and responsibilities of the President in case of a vacancy, absence, or disability of the President. The First Vice President shall automatically assume the office of President for the term succeeding their year as First Vice President. The First Vice President shall be at the disposal of the President for any duty necessary to the proper functioning of the Society. Upon election, the First Vice President of the Society will serve as President of the Boland Memorial Scholarship Fund, Inc.

(b): The Second Vice President shall be responsible for the maintenance and supervision of the various publications of the Society. The Second Vice President shall organize the necessary committees to properly administer the maintenance and revision of all publications of geologic interest.

Section IV: The Treasurer shall assume the duties of the President in case of the temporary absence of both the President and First Vice President. The Treasurer, together with the President, shall have charge of the financial affairs of the Society. The Treasurer shall submit an annual report and inventory at the last meeting before the summer recess, and any other special reports upon the request of the President. He shall receive and disburse all monies; however, expenditures in excess of one hundred dollars shall be made only with the approval of the Board of Directors. During the month of September, the Treasurer shall send statements or notices of dues to all members, except honorary members.

Section V: The Secretary shall assume the duties of the President in case of the temporary absence of all the other officers, except the Second Vice President. It shall be the duty of the Secretary to fully and permanently record the minutes of all the meetings of the Society and all meetings of the Board of Directors. The Secretary shall prepare and distribute by mail not later than January 15 a membership list and a list of committee assignments. It shall be the Secretary's duty to have at every meeting a copy of the Bylaws with all amendments thereto. The Secretary shall be responsible for all secretarial duties connected with affairs of the Society. The Secretary shall prepare all ballots and papers necessary to any Society election.

Section VI: In addition to their other duties, the Board of Directors shall make or cause to be made an annual check and review of the Society's records prior to the last meeting of the year.

ARTICLE V - ELECTIONS

Section I: General Elections

A. Nominating Committee. A Nominating Committee composed of five (5) members shall be appointed by the Board of Directors 30 days before the first regular meeting in April. The Chairperson of the Nominating Committee shall be the immediate past President, or, if unable to serve, the next available past President. No incumbent officer shall serve on this Committee. The Committee shall be discharged after presenting its slate of candidates to the Society.

B. Nominations: Nominations for officers of the Society shall be made by the Nominating Committee and a slate of candidates announced at the first regular meeting in April. Two or more candidates shall be nominated for each office by the Committee. Additional candidates for each office may be nominated from the floor at this meeting or at the last regular meeting in April. A biographical sketch of each candidate shall be published and mailed to each member of the Society at least two weeks prior to the election, or given verbally at the regular meeting just prior to the election.

C. Voting: Election of officers shall be held each year at the last regular meeting of the Society before the summer recess. Voting shall be conducted by secret ballots prepared in advance by the Secretary. A majority vote of the members present and voting shall decide the election. If more than two candidates run, and no candidate receives a majority vote (greater than 50%) on the first ballot, the candidate with the least number of votes shall be stricken from the ballot and another poll taken. This procedure shall be continued until a candidate receives a majority vote. Any member who cannot be present at the election meeting may upon request obtain an absentee ballot from the Secretary of the Society. The Secretary shall deliver all sealed ballots to the Election Judges at the election meeting. Only paid-up members and Honorary Members shall be eligible to vote in any election.

Section II: Special Elections

A. A special election shall be held at the next meeting subsequent to the permanent vacancy of any office excepting the President. The sole purpose of such special election shall be to fill the vacated office, or offices. Prior written notice to the membership will be given regarding the special election.

B. The Board of Directors shall appoint a Nominating Committee composed of five (5) members who shall elect two or more candidates for the office to be filled. The Chairperson of the Nominating Committee shall be the Immediate Past President, or if unable to serve, the next available Past President. No incumbent officer shall serve on this Committee. Nominations may also be made from the floor. The Committee shall be discharged after presenting its slate of candidates to the Society.

C. Voting: Nomination and election of officers shall be held at the same meeting of the Society. Voting shall be conducted by secret ballots. A majority vote of the members present and voting shall decide the election. If two or more candidates run, and no candidate receives a majority vote (greater than 50%) on the first ballot, the candidate with the least number of votes shall be stricken from the ballot and another poll taken. This procedure shall be continued until a candidate receives a majority vote.

Section III: Election Judges

Prior to the balloting of any election, the President shall appoint three (3) Election Judges from the membership who are not incumbent officers or candidates for any office of the Society. These Judges are charged with the secret counting of the ballots and announcing the names of those elected. Election Judges will be appointed for each election.

ARTICLE VI - BOARD OF DIRECTORS

The Board of Directors, in addition to its duties specified in the Constitution, shall meet at least monthly throughout the entire calendar year and shall be the governing body of the Society. A quorum of this Board shall consist of a minimum of four (4) members. To conduct business, a majority vote of those present is necessary.

ARTICLE VII - STANDING COMMITTEES

As soon as practicable after taking office, the President shall appoint the Chairpersons of six (6) standing committees. Chairpersons shall appoint the Committee Membership as needed. Committees shall be as follows:

- A. A.A.P.G. Committee
- B. Entertainment Committee
- C. Field Trip Committee
- D. Program Committee
- E. Projection Committee
- F. Publicity Committee
- * Nomenclature Committee Deleted

A. The A.A.P.G. Committee shall coordinate the efforts and activities of the Mississippi Geological Society, Inc. with the American Association of Petroleum Geologists. If any member or members of this Society is a District Representative or holds a National Office in the A.A.P.G., such member or members shall automatically serve on this committee.

B. The Entertainment Committee shall provide a suitable place for each meeting of the Society. If a luncheon or dinner is served in connection with the meeting, this Committee shall make all necessary arrangements including reservations. This Committee shall plan and coordinate any other social function of the Society.

C. The Field Trip Committee shall make and supervise the general plans of field trips which may be held from time to time at the discretion of the Society. This Committee shall avail themselves of the services of any other committee or member of the Society whenever it is deemed necessary.

D. The Program Committee shall secure speakers and lecturers to present topics of interest to the Society, shall make all necessary arrangements for presentation, and this Committee shall notify sufficiently in advance all other Committees whose services will be required to implement the meeting.

E. The Projection Committee shall provide and operate all projection and sound equipment necessary to any presentation before the Society.

F. The Publicity Committee, upon notification by the Chairperson of the Program Committee, shall prepare and distribute in advance to all members notice of meetings. This Committee shall, as soon as practicable, contact all new geologists in this area who are eligible for membership in the Society. This Committee shall secure as much favorable publicity as possible for the Society and the profession of geology.

ARTICLE VIII - SPECIAL COMMITTEES

The President shall appoint the Chairpersons of Special Committees and, after consultation with these Chairpersons, shall appoint the membership thereof. These special committees shall specifically include those with technical assignments designed to further the objectives of this Society as stated in Article II of the Constitution.

ARTICLE IX - DUES AND ASSESSMENTS

The annual dues of Active and Associate Members shall be payable on or before October 1st. Dues are to be determined by the Board of Directors. The fiscal year of the Society shall be from June 1st through May 31st.

Special assessments may be levied at any meeting by a majority vote of the members present, provided advance notice of the proposed assessments has been made to all members of the Society by mail.

Members who are in arrears in dues and/or special assessments on January 1st shall be dropped from the list of members. Any former member may be reinstated by payment of any outstanding dues and obligations which were incurred prior to the date when they ceased to be a member of the Society, and by payments of dues for the fiscal year in which they request reinstatement.

ARTICLE X - MEETINGS

A. Regular Meetings: Regular meetings shall be held each month from October to May, inclusive. Regular meeting dates may be changed or cancelled at the discretion of the Board of Directors.

B. Special Meetings: Special meetings may be called from time to time to conduct business or for any other purpose deemed advisable by the Board of Directors, due notice having been given in advance.

ARTICLE XI - AMENDMENTS

Amendments to the Bylaws may be made by a two-thirds majority of the votes cast by mailed ballots, to be supplied and mailed by the Society to the membership, provided a motion to amend said Bylaws has been passed at regular business meeting by a majority of the members present at said meeting. Returned ballots must be postmarked within 30 days of the mail-out day in order to be counted.

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DENNERY'S RESTAURANT

11:15 A.M.	REGISTRATION
11:30 A.M.	CALAMITY IN THE OIL PATCH: WHAT WENT WRONG? WHAT LIES AHEAD?
12:30 P.M.	LUNCH AT DENNERY'S
1:15 P.M.	HOW INVESTMENTS RESPOND TO ECONOMIC CYCLES.

As editor of the Cyclical Investing Quarterly Report™ since 1984, David L. Smith has achieved a remarkable record of sound contrarian predictions. He predicted the 1986 oil price collapse which carried the price of a barrel of oil to \$10, a prediction made in 1984 when oil prices, then holding at around \$29 a barrel, were expected by most to rise. He also predicted the attendant surge in stock and bond prices, and, equally important, urged his subscribers to exit the bond market in April 1986, the cyclical peak for bonds. His successful contrarian forecasts for 1987 included the acceleration of the U.S. economy (at a time when the consensus predicted slower growth), further deterioration in bond prices and a significant stock market correction. In July 1987 he advised his subscribers to exit the stock market if the Dow fell below 2300, an event which materialized on October 16th three days before the crash. He was among the earliest forecasters to warn of the resurgence of inflation in 1988, having maintained since 1984 that a strong inflationary revival would be an essential component of the current economic cycle.

Mr. Smith possesses a broad and varied perspective of the investment world, first entering the field in 1966 as a securities analyst for a major West Coast Bank and later for a New York Stock Exchange member firm. His investment activities have included mergers and acquisitions with a Fortune 500 conglomerate and securities underwriting with National Association of Securities Dealers member firms.

Born and raised in Argentina, Mr. Smith came to the United States in 1958 to attend Dartmouth College, where he earned his bachelor's degree with honors in Economics. After serving as a U.S. Naval officer on destroyers and with the U.S. Marine Corps in Vietnam, Mr. Smith attended the Stanford Graduate School of Business, where he was awarded his master's degree with distinction in Finance.

For further information please contact:

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PUBLICATION LIST

SPECIAL VOLUMES

1. Mississippi Geological Society Photo Directory, 1981 \$ 2.00
2. Wilcox Fields of Southwest Mississippi, Maps and production data on 171 fields, in ring binder, 350 pp., 1969 28.00
Mesozoic-Paleozoic Producing Ares of Mississippi and Alabama.
3. Volume I. Maps and producing data on 57 fields, with 2 composite logs, clothbound, 139 pp., 1957 10.00
4. Volume II. Maps and producing data on 77 fields, includes Supplement 1, in ring binder, 143 pp., 1963 15.00
5. Supplements 2 through 7 for Volume II, Maps and producing data on 35 fields, 110 pp. 15.00
6. Supplement 8 for Volume II, Maps and producing data on 34 fields, 108 pp., 1980 25.00
7. Volume II, complete with Supplements 2-8, 361 pp., 146 fields 50.00
- ★ 8. Volume III, 85 pp., 46 fields, 1987 50.00

FIELD TRIP GUIDEBOOKS

9. Upper Cretaceous Outcrops, Northeast Mississippi and West Central Alabama, Fourteenth Field Trip, 29 pp., May, 1959 4.00
10. Cenozoic of Southeast Mississippi and Southwest Alabama, Fifteenth Field Trip, 52 pp., May, 1960 6.00
11. Cenozoic of Horn Island and the Pascagoula Valley, 10th Annual GCAGS Meeting, 24 pp., October, 1960 2.50
12. The Paleozoics of Northwest Arkansas, Sixteenth Field Trip, 48 pp., May, 1962 5.00
13. Tertiary Type Localities of East-Central Mississippi, 25th GCAGS Meeting, 133 pp., October, 1975 5.00
14. Mississippi Rocks of the Black Warrior Basin, Seventeenth Field Trip, 79 pp., April, 1978 8.00
15. Tertiary and Upper Cretaceous Depositional Environments, Central Mississippi and West Central Alabama, 33rd Annual GCAGS Meeting, 40 pp., October, 1983 7.50

COMPOSITE LOGS AND CROSS-SECTIONS

16. Composite Mesozoic Log of South Mississippi and South Alabama 2.00
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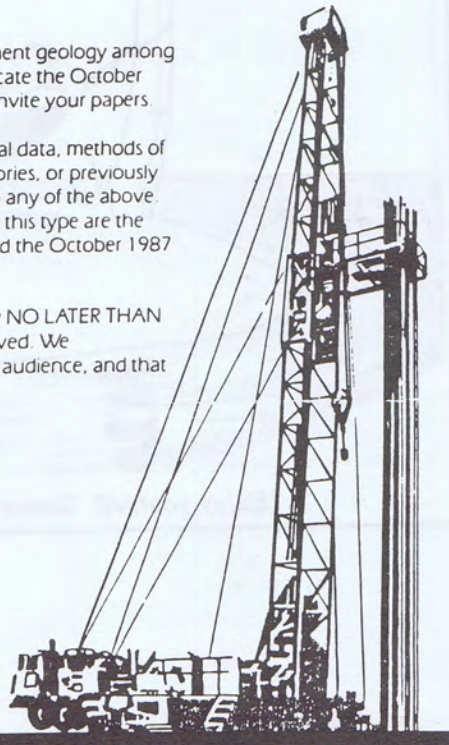
Because of the rising interest in development geology among our members, AAPG plans again to dedicate the October issue of the BULLETIN to that topic. We invite your papers.

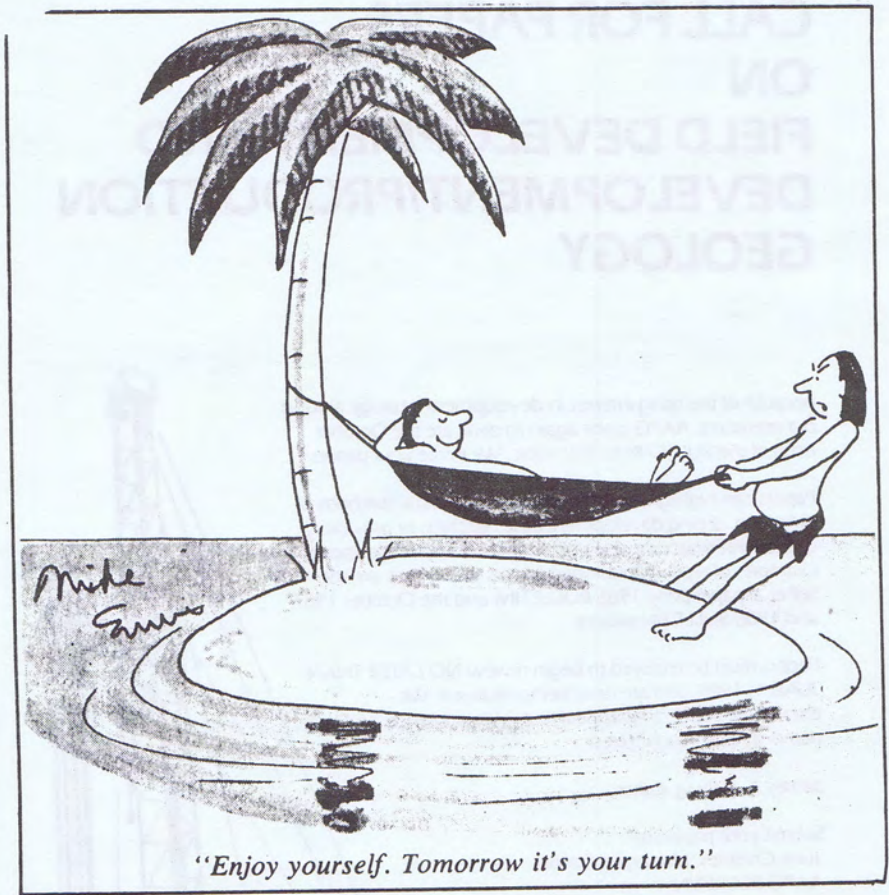
Papers can highlight techniques, technical data, methods of definition, drilling development case histories, or previously written internal company documents on any of the above. Examples of recently published papers of this type are the Self et al paper (May 1986 BULLETIN) and the October 1987 and 1988 BULLETIN papers.

Papers must be received to begin review NO LATER THAN JUNE 1, 1989, and are now being received. We encourage papers that appeal to a wide audience, and that demonstrate broad interest.

James A. Helwig, Editor

Submit your papers to:
June Chronos, Managing Editor
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NOON LUNCH SCHEDULE

1988

September 13

October 11

November 8

December 13

1989

January 10

February 14

March 14

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Luncheon meetings will begin at 11:30 a.m.
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MISSISSIPPI GEOLOGICAL SOCIETY

Volume XXXV

No. 10

July 1988



1987-1988

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Program Stan Galicki, Union of CA
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Well-developed sole markings on bottom of 1.5-foot thick classic turbidite sandstone layer, lower Atoka Formation (Pennsylvania), Windingstair Mountain, central Ouachita Mountains, Oklahoma.

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1988-89**

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Harry Spooner, Well Data/O&G Bd. Liaison	969-1831

TREASURER'S REPORT 1987-1988 Operating Year

Cash Balance	May 31, 1987	\$11,781.80
Cash Generated by Operations		22,094.50
Operating Expenses		14,982.62
Money Market Account	\$17,547.70	
Current Checking Bal.	<u>1,625.81</u>	
TOTAL CASH ON HAND	May 31, 1988	\$19,173.51

Jim Files
Treasurer

PRESIDENT'S MESSAGE

Under the very able leadership of Harry Spooner, this past year has been an extremely good one for your Society. We have become more involved in matters directly affecting the future of the petroleum industry in Mississippi. We have weathered tough times and come out in good condition. We have begun work on several issues that cannot be allowed to lapse. Thank you, Harry, for your tireless efforts and hard work on behalf of the Society.

It is with a little trepidation but much enthusiasm that I face this year as your president. As we are all painfully aware, the last couple of years or so have been devastating to our industry-- yet I cannot help but see signs of genuine improvement scattered about on the horizon. Who knows, perhaps someone will discover a method for taking crude oil pricing from the traders on the floor of the commodity exchanges!

What will the coming year bring? Since Harry has not passed on to me his crystal ball, I must confess my lack of prognostication powers and simply quote the old radio show, "the Shadow knows."

Speaking of shadows, we as an industry have been resting "in the shadow" too long about the workings and importance of our industry. The American public has been too long in the dark about the petroleum industry as a whole. Granted, as an industry we have not regarded P.R. as a necessity until lately (nearly too late) and have given education of the public only slightly more attention. I believe that education of the general public about our industry would do much to solve at least part of our public relations problem and inform an otherwise unknowing populace that oil & gas = big money ≠ 'the bank'.

To this end, I will be establishing an "education committee" to recruit members and accept volunteers to speak to civic groups, clubs, and schools to inform these groups of our industry. These speakers should also be rather adept at speaking to elementary and junior high school classes to encourage these ages to consider a career in our industry. Waiting until senior high would probably be too late to interest students in a career, but it would still arm them with facts about the industry.

Other items on this year's agenda include a drive to recruit new members for the Society, bylaw revisions, a possible 'Redbook' supplement/update, and the establishment of a historian to chronicle the Society's activities. The dates of the meetings for the coming year are listed elsewhere in this bulletin-- please mark your calendars now.

Finally, please take note of your officers for the 1988-89 year. If you would like to volunteer for some task, if you have a suggestion, comment, compliment, or complaint, please call one of us. We are here to serve you, the members of the Society, and we can perform our duties much better with your input.

Stanley King

1988

January 10
February 14
March 14
April 11
May 8

These meetings will begin at 11:30 a.m.
in the Petroleum Club Snackroom Room.

OTHER SOCIETY FUNCTIONS

Fall Banquet
Friday, September 10, 1988
Fowler's Lodge
Spring Luncheon
Friday, May 12, 1989
(Tentative)



NOON LUNCH SCHEDULE

1988

September 13

October 11

November 8

December 13

1989

January 10

February 14

March 14

April 11

May 9

Luncheon meetings will begin at 11:30 a.m.
in the Petroleum Club Smackover Room.

OTHER SOCIETY FUNCTIONS:

Fall Barbecue

Friday, September 16, 1988

Fowler's Lodge

Spring Fling

Friday, May 19, 1989

(Tentative)

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Dr. Francis Brewer made the first lease ever executed for the purpose of oil development. It was for the partnership of Brewer, Watson & Co. on the J. D. Angier spring on Oil Creek near Titusville on July 4, 1853.

A native of Keene, N. H., Dr. Brewer graduated from Dartmouth College and continued his studies in Dartmouth's Medical College, completing them in Jefferson Medical School in Philadelphia.

His first interest in oil was in 1848 when he purchased several gallons of crude from Oil Creek, which he used with marked success in his medical practice. He became a partner in Brewer, Watson & Co. in 1850.

In 1853 he took a sample of his oil to Prof. O. P. Hubbard of Dartmouth for analysis and was assured that, while it was a valuable product, it could not be found in quantities sufficient for commercial development.

The next year he made the Angier lease, based on his company's keeping the spring in repair for five years, constructing an additional new spring, and equally dividing the proceeds from any oil found after deducting expenses. In 1854 he returned to Dartmouth for another analysis of his oil, this time by his uncle, Dr. Dixie Crosby, professor of surgery and obstetrics.

It was this sample that eventually led George H. Bissell to investigate and then purchase the 100 acres comprising the Hibbard farm and oil rights on an additional 12,000 acres from Brewer, Watson & Company. The deal cost Bissel \$5000 plus 20 percent of the capital of a company to be formed and capitalized for \$250,000.

Dr. Brewer's father warned him that he was dealing with "a bunch of sharpers who would ruin him, if, indeed, they had not already done so." Brewer eventually sold his stock in the Pennsylvania Rock Oil Company (the \$250,000 corporation) for a box of cigars before the Drake well finally came in to give birth to the oil industry in 1859.

BEMAN GATES DAWES (1870-1953)

B. G. Dawes was the founder and first president of Pure Oil Company.

A native of Marietta, Ohio, Dawes was a descendant of the Boston patriot, William Dawes, who spread the alarm through Middlesex County on April 18, 1775, that the British were marching on Lexington and Concord.

He entered the oil business in the Ohio Valley in 1899 after earlier activities in coal and public utilities. At the end of the century, oil was bringing a new prosperity to the Ohio Valley country, but Dawes was diverted from oil briefly to serve four years in Congress starting in 1905.

In 1913 he became active in the Columbus Gas & Fuel Company and was elected president. In 1914 he and his associates acquired gas distributing properties and several small gas and oil producing properties. These were brought together in the Ohio Cities Gas Company. In December of that year, when the Cabin Creek Field was discovered in West Virginia, Oil Cities' operations in oil began to overshadow its utility operations. In 1920 Oil Cities' name was changed to Pure Oil Company.

Beman Dawes was succeeded by his brother, H. M. Dawes, as president of Pure in 1924, but continued to serve as chairman until 1947 and as a director until his death in 1953.

Dawes, grounded in the stalwart Americanism of his forebears, always took an active interest in government and politics as a Republican. His economic intelligence, as indicated by the soundness of his business enterprises, was his greatest asset. He was the last survivor of four famous Dawes brothers, all of whom were interested in government and the American economic system. One (Charles G. Dawes) became vice-president of the United States.

(From AAPG EXPLORER)

Florida Registration Forms Will Be Available in Mid-May

Applications for registering to be eligible to practice as a geologist in Florida will be available in mid-May, according to AAPG member George Freeland, member of the Florida Board of Professional Geologists.

Under the grandfather clause of the bill, passed last October, geologists applying for registration prior to October 1, 1988, can be licensed without testing, providing the individual can meet the requirements set by the board.

While the requirements vary according to the amount of higher education completed and the circumstances of previous work, generally the requirements include a degree with a major in geology (or other earth science majors the board deems appropriate), five to seven years of experience and payment of fees.

License fees are still to be officially set, but the proposed fee schedule is a \$100 application fee and a \$50 initial license fee with a subsequent \$100 biennial certificate renewal fee. After October 1, an exam will be required along with an additional \$150 testing fee.

The bill also includes provisions for a Certificate of Authorization to be issued under certain circumstances to firms, corporations and partnerships.


Freeland said the Florida law allows for the recognition of geologists licensed by other states with similar requirements upon payment of fees.

For further information, or to receive the application form upon availability, contact the Department of Professional Regulation, 130 N. Monroe St., Tallahassee, Fla. 32399-0750.



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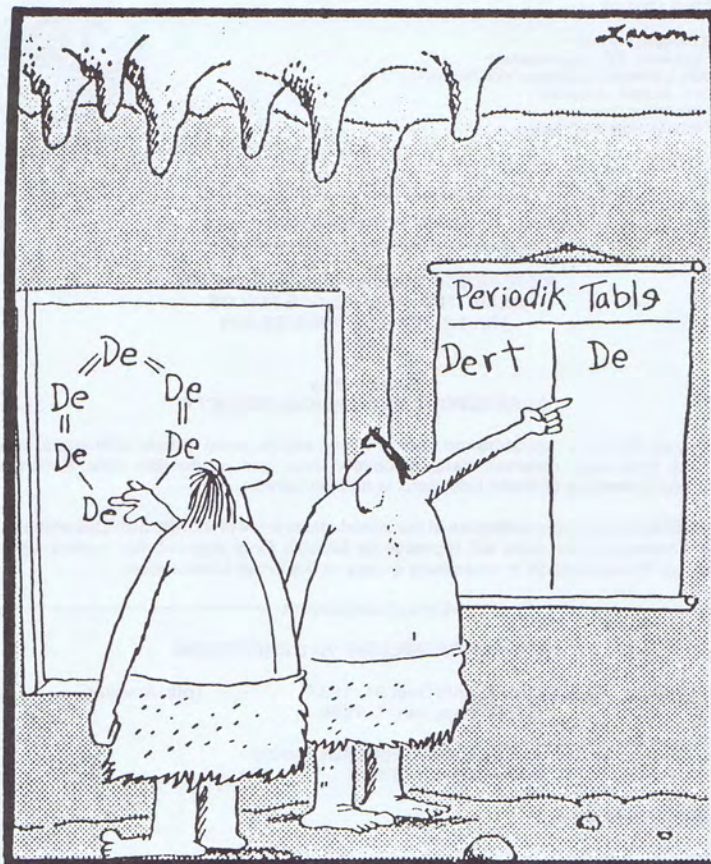
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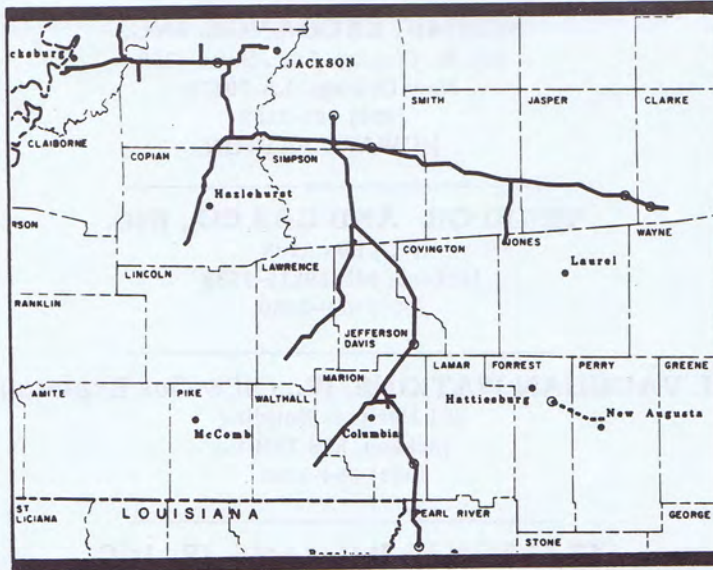
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