

NEWS

BULLETIN

mississippi geological society



VOLUME XXIV, NO. 1, SEPTEMBER, 1981

MGS *FALL BARBEQUE*

The annual MGS Fall Barbeque will be held on Tuesday, September 15th at Fowler Lodge. The barbeque is sponsored again this year by DATA LOG. Society members who have paid their dues will be admitted free, while guests will be charged \$10.00. Doors will open at 4:30 p.m. with dinner served as 6:30 p.m. The menu includes smoked sausage, ham and beef cooked on Halliburton's barbeque wagon.

Please phone your reservations in to T. C. Rader (969-3286) by noon, Monday, September 14th.

Don't forget to pay your dues before the Barbeque!



**MISSISSIPPI GEOLOGICAL SOCIETY
1981-1982**

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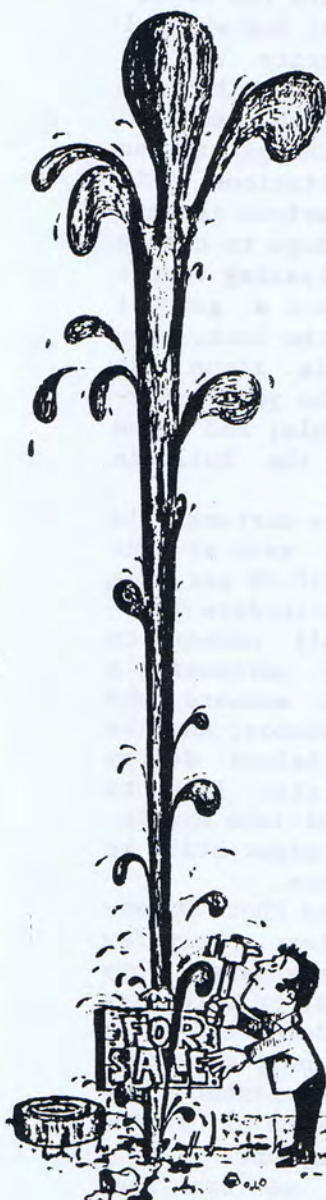
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WEDNESDAY, SEPTEMBER 30, 1981

11:30 A.M. - 3:15 P.M.

CAPITAL CITY PETROLEUM CLUB

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- C. Delbert Hosemann, Jr. - Attorney at Law - Dossett, Magruder and Montgomery
- William G. McDermott - Senior Vice President and Trust Officer - Deposit Guaranty National Bank

TENTATIVE AGENDA

- 11:30 - 12:30 Buffet Lunch (Smackover Room)
- 12:30 - 1:15 Estate Planning and the New Tax Law
William G. McDermott - Trust Officer
- 1:15 - 1:30 Questions & Break
- 1:30 - 2:15 Tax-favored Insurance Planning and the New Tax Law
James R. Piatchek, Chartered Life Underwriter
- 2:15 - 3:00 To incorporate or not to incorporate
C. Delbert Hosemann, Tax Attorney
- 3:00 - 3:15 Final Summary, Questions and Overview

Please send \$20 check to P. O. Box 5043, Jackson, MS. 39216, Brenda Bostic or telephone 932-4861 for more information.

LIMITED SPACE AVAILABLE - REGISTER TODAY!

PRESIDENT'S PAGE

This issue of the Bulletin signals the beginning of a new year for the Society; one which I hope will bring continued prosperity to the Society and its members. In keeping with that hope, I will be announcing several changes from previous years. The most visible change will be in the Bulletin. Due to time limitations, this issue is identical in format to previous issues. However, starting next month, we hope to change to a neater, more legible, more pleasing format with photographs, printed copy, and a general upgrading in the appearance of the book. You may have already noticed that this issue was mailed at the bulk mail rate. The yearly savings for this rate is considerable; and these savings will be used to finance the Bulletin improvements.

The new 1981 Photo Directory is currently in press, and will be available for sale at the Fall Barbeque. The cost will be \$10.00 per copy, which is a bargain for the most up-to-date listing of the membership. I urge all members to support this Society effort by purchasing a copy. I would like to thank the members who came by at the last minute for photos, and the advertisers whose contributions helped defray the publication cost. I would also like to thank Kipp Ferns, David Dockery and John Marble, without whose help the directory might still be lying unassembled in a box somewhere.

While assembling and editing the Photo Directory, one fact became painfully clear. Very few members stay in the same place very long. They either change addresses, or jobs, or both; and the Society records are often inadequate to keep up with the changes. In order to help alleviate this problem, we are mailing each member a new membership card. These cards are to be filled out and returned with your dues payment. I hope that by doing this every year we can keep abreast of the membership changes more effectively. In the past it has been common practice

for many members to pay their dues in case at the Fall Barbeque. While this is certainly convenient for the members, it inevitable results in aggravation and hard feelings when several members' dues are lost without record in the mass confusion usually present at the entrance door to the lodge. Because of this we strongly urge all members to pay their dues before the barbeque. If for some reason you feel you must pay your dues at the door, we will accept them only if you bring the completed new membership card with you.

The Barbeque is being sponsored again this year by Data Log; and I would like to thank them for their continued generous support. T. C. Rader has again volunteered to direct this affair, and he will be ably supported by Halliburton and their portable kitchen. The menu will be the usual, . . .SUPERB; so come on out and have a good time. Paid-up members will be admitted free, guests will be \$10.00.

Stephen Oivanki
President

P.S. It is with a note of sadness that I report the death of Al Beasley, a long time member of the Society. He will be missed by his many friends, and by his family.

NOTICE

The new Photo Directory will be available for purchase at the Barbeque. The cost will be \$10.

MISSISSIPPI GEOLOGICAL SOCIETY
BOARD OF DIRECTORS MEETING

July 15, 1981 .

Meeting Place: Capital City Petroleum Club,
Library

Members Present: Steve Oivanki, Charlie Williams
Frank Johnson, John Marble

Meeting was called to order at 1:43 P.M.

Kipp Ferns and Steve Oivanki are to serve as Co-Chairman of the Photo Directory. Directory to be published in approximately two weeks.

Fall Bar-B-Que on September 15, 1981, may not have sponsor. Members present to check with service companies for an alternate sponsor if Data-Log will not sponsor same.

Richard Ingram is to serve as Program Chairman for 1981-82. Larry Baria to give paper in October on Smackover Reefs. Possible paper on Smackover Carbonate sands in November.

Frank Johnson suggested that we go to a bulk mail status. This will result in a price difference from 35¢ to 10.4¢ per piece. This is an estimated savings of \$1,200.00 per year. Cost is a \$40.00 permit fee plus \$40.00 annual fee. Motion was made and passed.

Justin Devery will be Editor of the Bulletin this year. Will look into an alternate shop to handle the printing for us, possibly Quality Printer. First Bulletin to go out in August.

Suggestion was made to change the dues notice and renewal. New cards to be made up. Dues notice to be mailed at the end of August.

John Marble
Secretary

MISSISSIPPI GEOLOGICAL SOCIETY
BOARD OF DIRECTORS MEETING

August 11, 1981

Meeting Place: Capital City Petroleum Club
Library

Members Present: Steve Oivanki, Charlie Williams
Frank Johnson, Justin Devery,
John Marble

Meeting was called to order at 1:10 P.M.

Minutes of the July 15 meeting were read and approved.

Steve Oivanki reported that the Photo Directory is at the printers. Motion was made and seconded that the price of the Photo Directory will be \$10.00.

Charlie Williams suggested that we have two students man the M.G.S. booth at the Corpus Christi G.C.A.G.S. meeting. There will be a new price list for publications and all orders will be prepaid.

Justin Devery suggested that we take bids for the printing of the Bulletin. Firms suggested are Quality Printers, Kopy King, and Capital.

Fall Bar-B-Que to be sponsored by Data-Log. Bar-B-Que will be held at Fowlers Lodge on September 15, 1981. Motion was made and seconded that guest be charged \$10.00, and that no dues will be taken without a membership card being completed.

Richard Ingram is program chairman for the coming year. Larry Baria will present paper in October on the Smackover.

Steve Oivanki moved that awards continue to be given to guest speakers. Motion was passed.

Meeting was adjourned at 1:51 P.M.

John Marble
Secretary

NEW MEMBERS

JIM ALFORD - Independent.
BATES MARTIN, JR. - Merchants National Bank
DWIGHT DEES - Champlin
GRAIG GLASSINGER - Omni Exploration
JEFF HECK - Dresser Atlas
JAMES E. HICKS - NL Baroid
HARRY HOHMANN - Omni Exploration
ALLEN MATTIS - Amerada Hess
GARY PITTS - McMoran-Freeport
GENE A. RADZEWICZ - Radzewicz Oper. Corp.
LEE RICHARD - Forest Oil
WILLIAM WADE - Champlin
JAMES M. WESSEL - Omni Exploration
JAMES A. WILLIAMS - Schlumberger
DON WORDEN - Manville Forest Products
HAROLD ZIMMERMAN - Omni Exploration

NOTICE

Dues must be paid before attending the Fall Barbeque. Dues will not be accepted at the barbeque unless you bring your new Membership Card with you.



GEOLOGICAL INFORMATION

May 23-27, 1982

COLORADO SCHOOL OF
MINES
GOLDEN, COLORADO

MEETING PLACE AND TIME

The Second International Conference on Geological Information will be held at the Colorado School of Mines on May 23-27, 1982. The Conference will be sponsored and organized by the Geoscience Information Society and the Geological Information Group of the Geological Society of London, together with the International Union of Geological Sciences, Association of Chief Librarians of National Geological Surveys and Association of Geoscientists for International Development.

TECHNICAL SESSIONS

The Conference theme will be international cooperation to identify and share geological information. The program will include sessions on current activities in both national surveys and geoscience information groups; international programs and their prospects for the future; and development of inventories of natural resources information (bibliographic databases and numeric data banks including their content and availability). Specialized sessions will be planned for topics such as building library collections, specialized data files, map acquisitions, translations, and publishing.

CALL FOR PAPERS

Titles of papers submitted for presentation should be sent to: *International Conference on Geological Information*. Attn: D. C. Ward, 223 Natural History Building, 1301 West Green Street, Urbana, Illinois 61801 by 1 October 1981. The abstract deadline is 15 November.

ACTIVITIES

During the Conference field trips will introduce registrants to the general geology of the Rocky Mountain Front Range. There will be visits to the national, international, and corporate earth science data centers and libraries in the Denver area. Exhibits will focus on related services and publications. Demonstrations and workshops of computer based services will be included. Hospitality and social functions will center around the congenial atmosphere of the American West.

ACCOMMODATIONS

Travel to the Conference by airplane is now available by direct flight to Denver from both Mexico City and London. A special block of dormitory rooms, within easy walking distance of the Conference Center, has been reserved for those attending the Conference. A package price to include room and board (breakfast, lunch, dinner) will be offered. Room without meals will also be available.

CORRESPONDENCE

Residents of the Americas contact D. C. Ward, 223 Natural History Building, 1301 West Green Street, Urbana, Illinois 61801. All others write A. P. Harvey, Dept. of Library Services, British Museum (Natural History), Cromwell Road, London SW7 5BD, United Kingdom.

LOCAL COMMITTEE CHAIRMAN

H. K. Phinney, Jr., Director of Library, Colorado School of Mines, Golden, Colorado 80401.

2nd International Conference
on Geological Information

STATEMENT OF INTEREST

NAME _____

TITLE _____

ADDRESS _____

TENTATIVE TITLE OR SUBJECT

- I will most likely attend the Conference
- I am interested in receiving the final circular, including program & registration forms
- I do intend to present a paper.

RETURN BY 1 OCTOBER 1981

TO:
International Conference on
Geological Information
Attn: D. C. Ward
223 Natural History Bldg.
1301 West Green Street
Urbana, Illinois 61801

CALL FOR PHOTOS

In keeping with the new format to be adopted by the NEWS BULLETIN, an attempt will be made in subsequent issues to print a cover photo depicting a feature of geologic interest or highlighting an aspect of the petroleum industry, past or present.

To that end the "shutterbugs" of the MGS are requested to submit a print or slide of their favorite rig shot, or their most spectacular road cut in the Southern Appalachians or landsat image, etc. for possible publication.

Please include a brief description of the photo. Photos of regional interest are preferred. All materials received will be returned.

News Bulletin
Mississippi Geological Society
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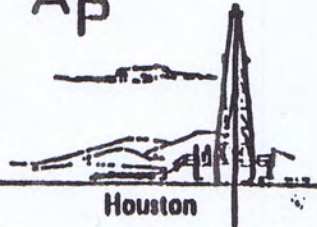
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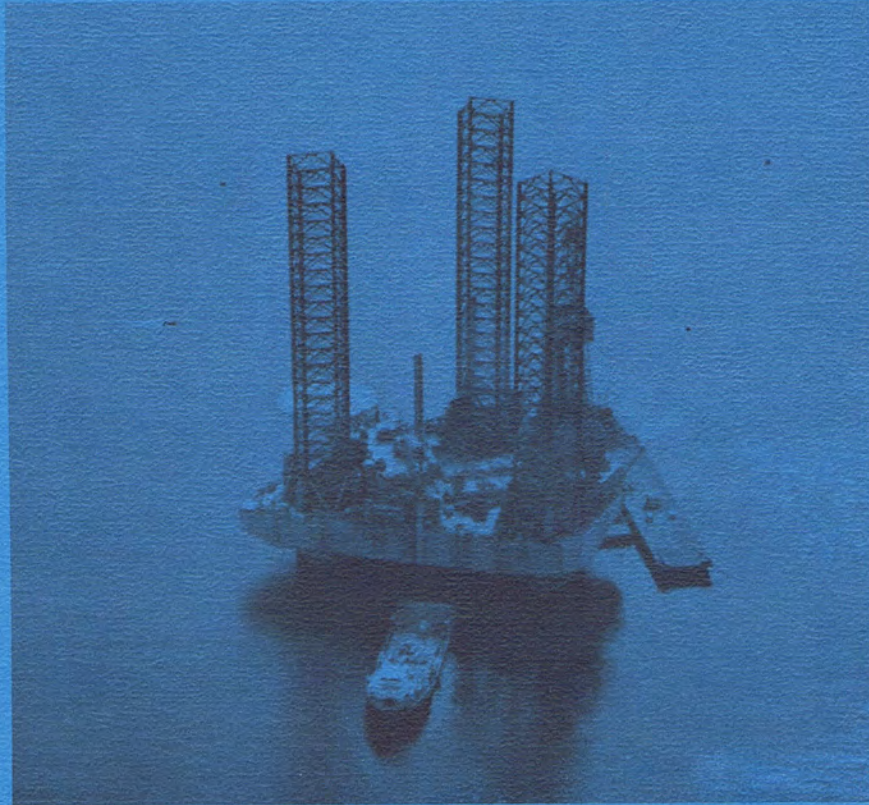
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- CALENDAR -

- SEPT. 15 - MGS FALL BARBEQUE
FOWLER LODGE
JACKSON, MS
- OCT. 1 - SEISMIC DATA ACQUISITION
SEG Continuing Education
Ramada Inn Coliseum
Jackson, MS

**MISSISSIPPI
GEOLOGICAL
SOCIETY**



1981-82

MISSISSIPPI GEOLOGICAL SOCIETY 1981-1982

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NEWS BULLETIN STAFF:

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Advertising-Justin Devery-Union
Geophysics-Jim McGinnis-SSD

NEWS

BULLETIN



mississippi geological society

Volume XXIX No. 2 October 1981

Cover: Aerial photo of Penrod Rig 65 drilling Tract 95 in Lower Mobile Bay. The test is the Mobil #1 State Lease 350, the first confirmation well and southeast offset to Mobil's natural gas discovery of December 1979.

Photo by Brian Houlihan

CORPUS CHRISTI

Sparkling City* by the Sea

1981

G.C.A.G.S.-S.E.P.M.
CONVENTION

OCTOBER 21 - 23
Corpus Christi, Texas



MAKE WAVES IN CORPUS CHRISTI, TEXAS • 1981
OUTSTANDING TECHNICAL PROGRAMS
FIELD TRIPS: COASTAL TEXAS AND MEXICO
LADIES ACTIVITIES: LAREDO • ROCKPORT
SPORT AND SOCIAL EVENTS



PRESIDENT'S PAGE

Well, the new year is off to a rousing start. For those of you who attended the barbecue on the 15th, it should come as no surprise to find out that we had a record attendance of 300 people. Fortunately we had planned for about that number, and there was plenty of food and drink for all. I want to thank Data Log for sponsoring the barbecue and keeping the record crowd satisfied and happy. I would also like to thank Halliburton and their cook, Buck Stewart. It is a tremendous task to provide such great food for so many people, and Buck always does a great job. And last but not least, I want to thank those who volunteered for the "kitchen crew" and served that starving mob. Our next meeting is at noon in the Petroleum Club on October 13th. Please be sure to make your reservations for this meeting, because we can't handle an overrun like we had at Fowler's Lodge.

As many of you noticed, the photo-directory was not ready for sale at the barbecue. The printer let us down, as printers are known to do on occasion, but the directories are now ready and you can order one by sending \$10 with your request to the Society post office box. I will have a limited number of directories at my office, Suite 235, 111 Capitol Building, for those who would like to pick one up in person.

Several people have complained about not receiving their bulletin. We recently re-typed the mailing list and it is possible that some addresses were typed incorrectly. If you suspect this, please contact John Marble to check that your address is listed correctly. Also, if you move, please send a change of address to the Society so we can correct our records.

If all of our meetings are as successful as the barbecue then this should be a great year. The speaker for the October meeting will be David Stoudt; and his topic will be reefs in the Smackover. I've always thought that they ought to be there, and now here's a chance to find out where the reefs are and what they look like. It is a very pertinent topic to this area, so try to attend if you can.

Steve Oivanki
President

MISSISSIPPI GEOLOGICAL SOCIETY

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6/1/80

MAPS AND PRODUCTION DATA FOR OIL AND GAS FIELDS

1. Wilcox Files of Southwest Mississippi, 171 fields, 350 pp. \$20.00

MESOZOIC-PALEOZOIC FIELDS OF MISSISSIPPI AND ALABAMA

2. Vol. I, 1957, 57 fields, 154 pp., 2 composite logs, clothbound. \$ 5.00
3. Vol. II, 1963, 77 fields, 143 pp., 3 ring binder (Includes Supplement I) . . . \$10.00
4. Supplements 2 through 7 for Vol. II. \$10.00
5. Supplements 6 & 7 (1972) for Vol. II. \$ 5.00
6. Supplement 8 (1980) for Vol. II. \$35.00
7. Vol. I & II, with all supplements (1 through 8) \$60.00

FIELD TRIP GUIDE BOOKS

8. Fourteenth Field Trip—Upper Cretaceous of Northeast Mississippi & West Central Alabama, May, 1959, 29 pp., illustrated with road log. \$ 4.00
9. Fifteenth Field Trip—Cenozoic of Southeastern Mississippi & Southwestern Alabama, May 1960, 52 pp., illustrated with road log. \$ 4.00
10. Sixteenth Field Trip—The Paleozoics of Northwest Arkansas, Magnet Cove, Arkansas Valley, Ouachita Mountains, Ozark Highlands, May, 1962, 48 pp., illustrated with road log and correlation chart. \$ 7.00
11. Seventeenth Field Trip—Mississippi Rocks of the Black Warrior Basin, April, 1978 (includes significant gas field studies) \$10.00

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12. Mesozoic Composite Log of South Mississippi and South Alabama, October, 1957. \$ 2.00
13. Paleozoic Composite Log of Black Warrior Basin, Mississippi and Alabama \$ 2.00
14. Paleozoic X-Sections—Black Warrior Basin, 5 Sections. \$10.00
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16. 1981 Mississippi Geological Society Photo-directory \$10.00

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Gulf Coast Section
Society of Economic Paleontologists and Mineralogists
Second Annual Research Conference
**Recognition of Shallow-Water Versus
Deep-Water Sedimentary
Facies in Growth-Structure Affected Formations
of
The Gulf Coast Basin**
Dallas, Texas
November 29-December 2, 1981
Registration Information

The Gulf Coast Section of SEPM invites your participation in a Research Conference on The Recognition of Shallow-water Versus Deep-water Sedimentary Facies In Growth-Structure Affected Formations of the Gulf Coast Basin. The Conference will be held November 29 through December 2, 1981 in Dallas, Texas at the Marriott Hotel Market Center.

The program will include approximately 20 papers presented during 2½ days of technical sessions, and one evening session will be devoted to a core workshop. The workshop on Mesozoic and Cenozoic cores of the Gulf Basin will be given twice. Technical paper topics will include:

- Modern shallow and deep water facies of the present Gulf of Mexico
- Use of micropaleontology and trace fossils in determining paleobathymetry
- Seismic stratigraphy
- Contemporaneous structure in Late Cretaceous and Early Tertiary sections of the middle Texas Gulf Coast Basin
- Shelf-edge evolution and filling of the northern Gulf Basin
- Depositional environments of selected Gulf Basin Mesozoic and Cenozoic formations
- Structure and stratigraphy of selected traps, reservoirs, and fields in the Gulf Basin, and
- Analysis of exploration strategies in growth-structure affected sections.

Registration Fee: The registration fee for the Conference is \$100.00. Generous contributions from sponsors of the Conference permit the Section to offer a special registration fee of \$25.00 for students.

The Conference will be limited to 300 registrants, and registration forms will be processed on a first come-first served basis. Confirmation of registration, conference schedule, and other information will be mailed to all registrants.

Registration forms and fees must be received by November 2, 1981.

For registration forms and more information contact: Shelia C. Barnette, Sohio Petroleum Company, 8303 Southwest Freeway, Houston, Texas 77074.

UPPER JURASSIC REEFS OF THE SMACKOVER FORMATION

A PRELIMINARY REPORT

By

Lawrence R. Baria
Tideway Oil Company
Jackson, Mississippi 39205

David L. Stoudt
Mosbacher Production Company
Houston, Texas 77002

Paul M. Harris
Gulf Research & Development Co.
Houston, Texas 77036

Paul D. Crevello
Marathon Oil Company
Littleton, Colorado 80160

Speaker: David L. Stoudt

Coral, sponge, and algal reefs are recognized in conventional cores of the Smackover Formation from southwestern Arkansas eastward into the panhandle of Florida. While no known reef is currently productive, attractive porosities and permeabilities (mean ϕ of 20%, mean K of 500 md) result from fresh-water leaching, fracturing, or dolomitization. In addition, the reefs may have provided a positive structural aspect during later Smackover deposition and diagenesis.

Smackover reefs formed in the upper Jurassic during periods of maximum marine transgression (good circulation, clear water, normal marine salinity) in variable paleogeographic settings: (1) the seaward edges of upthrown fault blocks, i.e., Hico Knowles and Haynesville Fields, Louisiana, and Walker Creek Field, Arkansas; (2) the margins of Paleozoic highs protruding into the Smackover basin, i.e., Melvin and Vocation Fields, Alabama; and (3) the crests of early-moving salt structures, i.e., wildcat wells in Alabama. The buildups are 3 to 40 meters thick and generally cover an area of less than one square kilometer.

Smackover reefs in Alabama and Florida were constructed by algae and sponges. Vertical relief on the reef surface during growth may have been only one meter. Similar reefs in southern Arkansas and northern Louisiana exhibit a vertical zonation suggesting that the reef environment became better established. These buildups are algal boundstones containing scattered corals toward the base; diversity increases upward with the addition of abundant corals (*Actinastrea*, *Complexastrea*, *Thamnastrea*, and others), sponges, stromatoporoids, and byozoans. The reefs are commonly underlain and overlain by peloidal lime packstones containing oncolites and scattered fossils.

*Mailing address of senior author: Lawrence R. Baria, Tideway Oil Company,
P.O. Box 92, Suite 1000, Milner Building, Jackson, MS 39205

David Stoudt

David Stoudt received a B.S. in geology with honors from Waynesburg College, Waynesburg, PA in 1972, and a Master of Science from Texas A&M University in 1974. He holds the Houston Geological Society Best Student Award for his work at Texas A&M. From 1974 until 1978, he worked for Getty Oil in New Orleans and Houston being involved in Gulf Coast Jurassic Exploration Nevada basin and range field work and northern California Tertiary Basins. He was exploration geologist in the Ark-La-Tx and Ma-Fla areas for Reserve Oil from 1978-1980. Since February 1980, he has been employed by Mosbacher Production Company, as exploration geologist working the Gulf Coast Cretaceous-Jurassic. He is a member of AAPG, HGS and RMAGS.



Meeting: Tuesday, October 13 in the Smackover Room of the Capital City Petroleum Club.

Please phone your reservations in to T.C. Rader (969-3286) by noon, Monday, October 12. The meeting will cost \$7.00.

1981 MGS Photo-directory

The 1981 MGS Photo-directories are now available. The directories can be purchased for \$10. Please send your request to:

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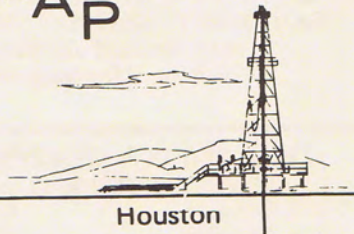
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CALENDAR

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| October 13 | MGS Noon Meeting
Capital City Petroleum Club
Smackover Room
Jackson, Mississippi |
| October 21-23 | 1981 GCAGS—SEPM Convention
Corpus Christi, Texas |
| Nov. 29-Dec. 2 | Recognition of Shallow-Water Versus
Deep-Water Sedimentary Facies...
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MISSISSIPPI GEOLOGICAL SOCIETY

Volume XXIX

No. 3

November 1981



1981-82

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1981-1982**

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BULLETIN



mississippi geological society

Cover: Devil's Backbone, an anticlinal arch in west limb of Brown's Mountain anticlinorium near Huntersville, West Virginia (U.S. Route 39). Exposure is of the Silurian Tuscarora Sandstone.
Photo by Earl Slocum

Mississippi Geological Society
BOARD OF DIRECTORS MEETING

September 17, 1981

Meeting Place: Capital City Petroleum Club, Library

Members Present: Steve Oivanki, Buddy Twiner, Justin Devery,
John Marble

Meeting was called to order at 1:36 P.M.

Minutes of the August 11 meeting were read and approved.

The motion was made that a letter be drafted for the bulletin announcing the photodirectory. Letters sent to the Houston, New Orleans, Lafayette, Corpus Christi, Shreveport, Mississippi, Baton Rouge, Austin, and Tallahassee Geological Societies.

Two complimentary memberships to the G.C.A.G.S. for students at booth. Do not include transactions-leave on Monday. Front expense money \$25.00/day. Does not include motel. Steve Oivanki will find out where they are to stay.

The ads in the bulletin will be changed to display type ads. Will need to raise price on ads. Capitol Printers will print the bulletin.

Larry Baria will present a paper on the Smackover Reefs at the October 13 noon meeting.

Motion was made by Steve Oivanki and seconded by Buddy Twiner that we need to nominate a Vice President for the G.C.A.G.S. for 1981-82; to be President in 1983, when it will meet in Jackson. Sarah Childress was recommended.

No more business.

Meeting was adjourned at 2:00 P.M.

Steve Oivanki, *President*

Marshall Kern, *Past Pres.*

Buddy Twiner, *1st V.P.*

John Marble, *Secretary*

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Depositional Environment of Jurassic Smackover Sandstones, Thomasville Field, Rankin County, Mississippi

BY
Rebecca S. Olsen

Smackover sandstones in Thomasville Field, Rankin County, Mississippi, represent turbidite channel deposits. These sandstones are interbedded with a few thin beds of oolitic grainstones. 969 feet (296 m) of core from three wells were examined, of which 820 feet (252 m) were sandstone. Depths ranged from 20,100 to 20,649 feet (6131 to 6298 m). Electric logs and cores from three wells show abrupt facies changes which may be expected from a shifting channel deposition. Correlations were made between wells and labeled the lower, upper, and anhydrite zones.

Environment of deposition was determined from an examination of core composition, texture, and sedimentary structures. Thick, massive and massive to laminated bedsets (A and AB units, respectively) are common in all cores, although massive (A) units dominate. Quartz grain sizes fine upwards in most bedsets. Sandstones have a mean grain size of 0.23 mm (fine grained). Carbonates exhibit similar textural trends and sedimentary structures. Mean size of oolites is 0.38 mm (medium sand), and they also fine upward with beds. Calcite and dolomite cements make up a average 23% of the rock.

Porosity and permeability differ between sandstones and carbonates, averaging 5.1% and 0.32 md for sandstone and averaging 1.2% and 0.01 md for carbonates. A black, opaque residue, ubiquitous throughout the cores, represents the remains of a paleo oil pool. Heat and burial cracked the oil, leaving a residue of pyrobitumen and heavy oil.

A plot of resistivity versus bulk density shows distinct groups for each rock type. A plot of resistivity versus porosity suggests a gas-water contact further down the section at a depth of about 20,500 feet (6253 m). Based on this study, the gas column is on the order of 300 feet (92 m) for about 50% water saturation.



Biographical Sketch

Name: REBECCA S. OLSEN

Education: Texas A&M University
College Station, Texas
M.S., 1980, Geology
B.S., 1977, Geophysics

Present Employment: Exploration Geophysicist
Cities Service Company
5100 Southwest Freeway
Box 27570
Houston, Texas 77027

Professional Memberships: American Association of Petroleum Geologists
Society of Exploration Geophysicists



Meeting: Tuesday, November 10 in the Smackover Room of the Capital
City Petroleum Club.

Please phone your reservations in to T.C. Rader (969-3286) by
noon, Monday, November 9. The meeting will cost \$7.00

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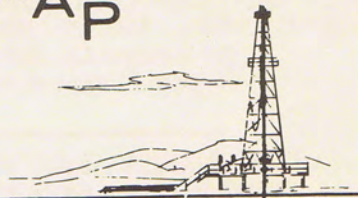
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CALENDAR

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| November 10 | MGS Noon Meeting
Capital City Petroleum Club
Smackover Room
Jackson, Mississippi |
| Nov. 29-Dec. 2 | Recognition of Shallow-Water Versus
Deep-Water Sedimentary Facies...
2nd Annual Research Conference
SEPM—Gulf Coast Section
Dallas, Texas |



MISSISSIPPI GEOLOGICAL SOCIETY

Volume XXIX

No. 4

December 1981



1981-82

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Editor-Justin Devery-Union
Advertising-Justin Devery-Union
Geophysics-Jim McGinnis-SSD



BULLETIN



mississippi geological society

Cover: Axial ridge of Zuloaga Limestone (Smackover) in the background, in Canon de la Huasteca near Monterrey, Mexico. Foreground is intrusive gypsum of the Minas Viejas (Louann) which forms the core of this breached anticline.
Photo by: Steve Oivanki

PROPOSED BYLAWS CHANGE

The current bylaws of the Society allow persons studying geology to become associate members in the Society without clearly defining what it means to "study geology". This has led to considerable misunderstanding, both on the part of the general membership and those students applying for membership. This problem has been magnified by numerous member complaints about the number of students attending the semi-annual barbecue, and their qualifications for membership. Therefore, the executive committee proposes a change in the bylaws which would clearly limit membership to bonafide geology students, as opposed to those who have merely taken a few geology courses.

Current Bylaws: ARTICLE III-MEMBERSHIP

Section III: Any person shall be eligible to associate membership who is actively engaged in geological or related work or the study of geology.

Proposed Change: ARTICLE III-MEMBERSHIP

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.

B A L L O T

_____ Yes, I am in favor of the proposed Bylaws change.

_____ No, I am opposed to the proposed Bylaws change.

Please detach and return this ballot by January 1, 1982.

Mail to: Secretary
Mississippi Geological Society
P.O. Box 422
Jackson, MS 39205

PRESIDENT'S PAGE

The President's Page was started as a vehicle of communication between the president and the membership. As such I would like to start this message with an appeal to you for help in an ambitious yet inevitable undertaking—the 1983 GCAGS Convention in Jackson. If any of you attended the recent GCAGS Convention in Corpus Christi, you saw a well-organized and well-run convention involving over 4000 people. It is expected that the same number will be attending in Jackson in 1983—this is about double the number who attended the convention in Jackson in 1975. Planning and running a convention for such a large number of people requires the dedicated efforts of a majority of our membership. Sarah Childress has been elected Vice-President of GCAGS, and will ascend to President in 1983. I am urging all members who can contribute a small portion of their time to contact Sarah at Latham Exploration (352-1133) to volunteer for this effort. There is only one year left in which to prepare, so call now.

Elsewhere in this bulletin you will find a call for advertisements for next year in the MGS Bulletin. I'm sure you will agree that the Bulletin is now a first-class publication, largely due to the efforts of our editor-Justin Devery. I would like to thank all of the members who regularly advertise in the Bulletin; and I would like to urge those who do not to consider an ad for next year. It never hurts to advertise, and you can show your support for your Society at the same time.

A change in the Bylaws is proposed in this Bulletin. Please take the time to read it over and send in the attached ballot. There are still some members who have complained about not receiving their Bulletin. If you fall in this category, please contact Justin Devery at Union Oil Co. (948-8676) to verify your current mailing address. If you don't check there is no way for us to correct any possible errors.

There were 97 members and guests at our November meeting, and 122 at the October meeting. We have been at or above the capacity of the Petroleum Club both times, so it is imperative that you call in your reservations in order for adequate facilities to be prepared. Our next speaker will be Ernest A. Mancini to talk about the Petroleum Geology of South Carlton Field, Alabama on December 8th, I hope to see you all there.

A field trip to Mexico is being planned for April 7-10th, 1982. This trip is identical to one I participated in with the Shreveport Geological Society in 1979. It is an excellent educational trip, and if you like Mexican food I can assure you that you won't be disappointed. Send in the attached reservation form early, since there is only limited space available.

Stephen Oivanski
President

SPRING FIELD TRIP
—MEXICO—
APRIL 7-10th, 1982

Tentative plans are being made for a spring field trip to Mexico April 7-10th, 1982. The trip will be led by Dr. Alfred E. Weidie from the University of New Orleans. Participants will be able to examine in the outcrops the equivalent Upper Jurassic and Lower Cretaceous sediments which form the important subsurface reservoirs in the Mississippi Salt Basin. They will also observe the dramatic effects of salt tectonics exposed at the surface.

The number of participants needed in order to make this trip feasible is 30 to 40 persons. It is expected that the cost will be approximately \$450 per person. This includes round-trip air fare from Jackson to Monterrey, double-occupancy rooms in Monterrey and Saltillo, field transportation, box lunches in the field, and a guidebook.

If you would like to participate in the field trip, please fill out the form below. This form does not obligate you to attend, but it does give us a tentative number of participants on which to base our planning efforts. Those responding will be contacted with details at a later date. The trip is limited to 40 persons on a first-come first-served basis.

YES, I would like to attend the Spring Field Trip to Mexico, April 7-10th, 1982.

NAME: _____

COMPANY: _____

ADDRESS: _____

OFFICE PHONE: _____

Please return this form by January 1, 1982 to:

Stephen Oivanski
111 East Capitol Street
Suite 235
Jackson, MS 39201

PETROLEUM GEOLOGY OF SOUTH CARLTON FIELD, LOWER TUSCALOOSA "PILOT SAND", CLARKE AND BALDWIN COUNTIES, ALABAMA

Ernest A. Mancini and J. Wayne Payton
Geology Department, University of Alabama, University, AL 35486

Speaker: Ernest A. Mancini

Petroleum production from South Carlton field, southern Clarke and northern Baldwin Counties, Alabama, is primarily from the lower Tuscaloosa "Pilot Sand" of Late Cretaceous age. The "Pilot" is a massive, green-brown, micaceous, fossiliferous, glauconitic, very fine to medium-grained, quartzose sandstone. Texturally, the sandstone is submature with the quartz grains being subangular to subrounded and moderately to moderately well sorted. The sand body displays a decrease in grain size, sorting, and roundness from the base to the top of the unit. The sandstone has a maximum thickness of 71 feet in the northern part of the field. Usually overlying the "Pilot" is a gray, silty, oyster-bearing packstone. The packstone is overlain by the "Marine Shale" which consists of dark-gray, silty, micaceous, fossiliferous, laminated claystone. This claystone contains a diverse fossil assemblage, indicating open marine-shelf sedimentation. The "Pilot Sand" is underlain by an interbedded sandstone and claystone interval, which is separated from the "Massive Sand" by a silty claystone.

The spontaneous-potential pattern for the "Pilot Sand" illustrates a gradational lower contact and a sharp upper contact. Constructed cross sections indicate the "Pilot" thins and becomes argillaceous immediately east and west of the field. The sedimentary rock characteristics, including an elongate northeast to southwest strike-trending morphology, and well-log properties of the sandstone suggest it accumulated as part of a marine-bar complex.

Porosity in the "Pilot" is principally intergranular and averages 27.3 percent. Average permeability is 183 md, and oil saturation can be as much as 42 percent. The "Marine Shale" above the "Pilot Sand" and claystone from the interbedded interval underlying the "Pilot" have potential as petroleum source rocks. The overlying packstone and "Marine Shale" make excellent seal rocks. The petroleum trap is a combination of stratigraphy and structure. The structural element is most critical and involves salt movement which has resulted in a domal feature. The crude oil trapped by the salt dome is a heavy oil having a chemical composition of an immature oil.

TOPICS & DATES OF FUTURE MGS MEETINGS

January 12, 1982

Topic: "Waveland Field: An Analyses of Facies, Diagenesis, and Hydrodynamics in the Mooringsport Reservoirs"

Speaker: Lawrence R. Baria

February 8, 1982

Topic: "Interpretation of Subsurface Hydrocarbon Shows"

Speaker: Tim T. Schowalter

March 9, 1982

Topic: "Mount St. Helens"

Speaker: Travis Hughes



Meeting: Tuesday, December 8 in the Smackover Room of the Capital City Petroleum Club.

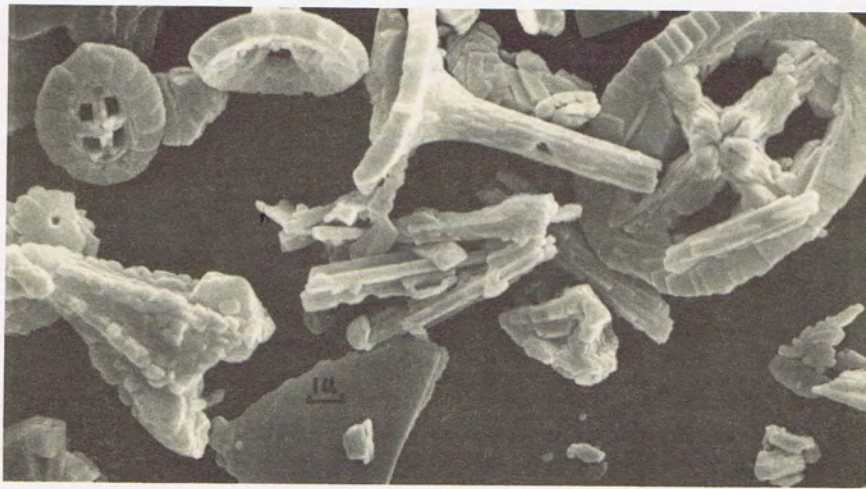
Please phone your reservations in to T.C. Rader (969-3286) by noon, Monday, December 7. The meeting will cost \$7.00.

1981 MGS Photo-directory

The 1981 MGS Photo-directories are now available. The directories can be purchased for \$10. Please send your request to:

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The Upper Cretaceous chalks and marls in Mississippi are in effect microcoquinas of planktonic phytoplankton, and more than 5,000,000 specimens of coccoliths may be present in a cubic centimeter. The scanning electron micrograph above from Demopolis (Taylor) chalks near Mississippi State show coccoliths magnified 5000X. The peculiar pyramidal form in the lower left is *Tetralithus aculeus* a biostratigraphic marker in the Late Campanian. Ernest E. Russell, Mississippi State University.

ITEM: Advertising in the MGS News-Bulletin.

The NEWS-BULLETIN, the official publication of the Mississippi Geological Society, is issued nine times a year (September-June) and sent to the Society's 600 members who reside primarily in the states of Mississippi, Alabama, Louisiana and Texas.

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PETROLEUM AUXILIARY 81-82

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Mrs. Ann Calhoun-Secretary
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PETROLEUM AUXILIARY CHRISTMAS SHERRY PARTY

December 5, 1981

3:00 - 5:00

Mrs. Randy James

2105 Brackenshire

All Geological wives and their guests are invited.

For reservations call:

Mrs. Jeffery Miller

982-0838



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USM—Jackson will offer two-three semester hour, Petroleum Geology courses at the University Center on 3825 Ridgewood Road in Jackson.

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The courses will be held on Monday nights (6-9 p.m.) from January 11 to May. Registration runs January 4, 5, 6. Tuition will cost \$35 per undergraduate semester hour and \$41 per graduate semester hour.

For more information, please phone Cindy Reed at 982-6210.

THE WILDCAT

She's running high and looking good
Just like wildcats do and should
Fifty feet and sometimes higher
It fills the owners soul with fire!

Although there's a stretch in every string
It's running high, and that's the thing,
The driller may forget to add a joint
But this is just a trifling point.

They find a bad joint and lay it down
But no other problem can be found,
They'll strap the drill pipe in a pinch
But...the driller is never off an inch!

The Geologist now takes the "dope"
Armed with shining microscope,
He studies sands, and shales and lime
His science and stuff takes a lot of time.

With studied care he works and ponders
Open-mouthed farmers stare in wonder,
Lease brokers quietly stand and wait
When he says, "She's running high and looking great!"

A thrill then shakes the very ground
They're gone before you turn around,
Royalties and leases blithely sell
For she's running high and looking swell!

Three months have passed...another scene
The rig is gone, the grass is green,
A gaping slush-pit, cracked; and dried...
An Optimist here, fought and died.

So thus it is with wildcat wells;
They're spudded-in with clanging bells,
When plugged, and shouts of joy have died
You wonder who the h...has lied!

Time will passed and memories fade
Cattle graze again in this emerald glade,
The Brokers are fat, the buyers gone
But the poor, damned Geologists works on alone!

-A. Nonymous

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CALENDAR

December 8

MGS Noon Meeting
Capital City Petroleum Club
Smackover Room
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MISSISSIPPI GEOLOGICAL SOCIETY

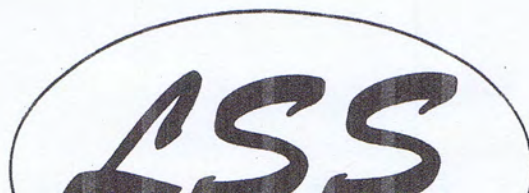
Volume XXIX

No. 5

January 1982



1981-82



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Cover: Byram Formation of the Vicksburg Group (lower Oligocene) along the Big Black River near Edwards, Mississippi. The formation consists of alternating, near-shore, sands and shales containing an abundance of fossil shells.
Photo by: David Dockery

President's Page

By the time you read this, you will have already enjoyed a Merry Christmas, and hopefully are well on your way into a Happy New Year. I hope it will be a good year with large budgets, cheap leases, plenty of rigs, high oil and gas prices, and lower taxes; and may all of you make a contribution to the current world oil surplus.

There is still some space available for the Field Trip to Mexico in April. Be sure to send in the reservation form in this Bulletin to reserve your place. A great time will be had by all who attend (and you'll probably learn something about geology as well). It's the only place in the world where you can knock off a piece of Smackover oolite with your hammer and examine it for about \$450. Compare that with the \$300,000 to \$1,000,000 it costs everywhere else, and it's a bargain you can't afford to pass up.

There were 74 members at our December meeting. Larry Baria will speak at the January 12th meeting about Waveland Field. Be sure to call in your reservations to T.C. I hope to see you there.

Stephen Oivanki
President

--NOTICE--

Proposed Oil & Gas Severance Tax Increase

Charlie Williams calls our attention to an issue of vital concern to all of us in Mississippi's Oil & Gas Industry. The Governor is recommending that the 1982 Legislature increase the Oil and Gas Severance Tax rate from 6% of value to 10% to provide funding for Kindergarten and Compulsory Education Programs. That's a 67% increase on our industry which is already making a substantial contribution to our State's economy through Risk Capital, Investments, Jobs, and Taxes. Our industry has been one of the few bright spots in Mississippi during these uncertain times...drilling is up, oil related employment is up, and our production taxes are the only major revenue source that has been significantly increasing in our State. Our Industry has always supported better education and fully recognizes its importance to the future of the State. Increasing the severance tax, however, will affect Mississippi's ability to compete with other states for drilling dollars thereby dampening future exploration and production activities. Our state should be doing all it can to encourage drilling instead of discouraging these activities and endeavors. Mississippi will never know what its full potential is unless Risk Capital can be attracted here to continue exploration.

All of us will want to be prepared to address this issue with facts. Charlie has a wealth of data on this subject that is available to you. Your help is needed and Charlie will keep you informed on this issue. Please contact him at the address below for more information.

Charlie Williams
Mid-Continent Oil & Gas Association
455 North Lamar Street
Jackson, Mississippi 39201
(601) 948-8903

Waveland Field: An Analyses of Facies, Diagenesis, and Hydrodynamics in the Mooringsport Reservoirs

Lawrence R. Baria

Although Waveland field was discovered in 1965, only in the last few years has development changed this once insignificant field into a 24,000-acre producing area flowing nearly 4 billion cubic feet of gas per month. Part of the reason for the field's unusual growth rate is found in a host of reservoir disguises related to carbonate facies, diagenesis, and fracturing.

All of the field wells to date have penetrated a uniform sequence of back-reef and lagoonal deposits in the Mooringsport (Lower Albian) producing interval. Miliolid and pellet packstones, mollusk and echinoid mudstones, and orbitolinid packstones and grainstones make up this sequence. The producible reservoir beds are curiously correlative only to the orbitolinid facies, despite the fact that log analyses and standard core analyses do not discriminate between facies with regard to reservoir properties.

Petrographic studies and special core analyses have identified a unique style of diagenetic recrystallization which yields water-free gas production from these high water saturation reservoirs. However, in updip portions of the field where porosity and permeability have been enhanced by solution diagenesis, both gas and water are produced in subeconomical proportions.

The complex association of a discretely layered reservoir, which demonstrates untraditional fluid dynamics within layers, is further complicated by a dual system of vertical fractures. This fracture system, which is probably a function of gulfward subsidence coincident with drape across the Hancock ridge, has been demonstrated to be an important factor controlling the prolonged and prolific production at Waveland field.



Meeting: Tuesday, January 12 in the Smackover Room of the Capital City Petroleum Club.

Please phone your reservations in to T.C. Rader (969-3286) by noon, Monday, January 11. The meeting will cost \$7.00.

**SPRING FIELD TRIP
—MEXICO—
APRIL 7-10th, 1982**

Tentative plans are being made for a spring field trip to Mexico April 7-10th, 1982. The trip will be led by Dr. Alfred E. Weidie from the University of New Orleans. Participants will be able to examine in the outcrops the equivalent Upper Jurassic and Lower Cretaceous sediments which form the important subsurface reservoirs in the Mississippi Salt Basin. They will also observe the dramatic effects of salt tectonics exposed at the surface.

The number of participants needed in order to make this trip feasible is 30 to 40 persons. It is expected that the cost will be approximately \$450 per person. This includes round-trip air fare from Jackson to Monterrey, double-occupancy rooms in Monterrey and Saltillo, field transportation, box lunches in the field, and a guidebook.

If you would like to participate in the field trip, please fill out the form below. This form does not obligate you to attend, but it does give us a tentative number of participants on which to base our planning efforts. Those responding will be contacted with details at a later date. The trip is **limited to 40 persons on a first-come first-served basis.**

YES, I would like to attend the Spring Field Trip to Mexico, April 7-10th, 1982.

NAME: _____

COMPANY: _____

ADDRESS: _____

OFFICE PHONE: _____

Please return this form to:

Stephen Oivanki
111 East Capitol Street
Suite 235
Jackson, MS 39201



Zuloaga Limestone (Smackover) over-lying intrusive gypsum of the Minas Viejas (Louann) in Sierra de Minas Viejas near Monterrey, Mexico.

Photo by: Steve Oivanki

1981 MGS Photo-directory

The 1981 MGS Photo-directories are now available. The directories can be purchased for \$10. Please send your request to:

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

ALL ORDERS MUST BE PREPAID

BOARD OF DIRECTORS MEETING
November 9, 1981

Meeting Place: Capital City Petroleum Club, Library

Members Present: Steve Oivanki, Buddy Twiner, Charlie Williams, Justin Devery,
John Marble

Meeting called to order at 1:37 P.M.

Noon meetings are becoming very crowded in the Smackover Room. Motion was made and passed that the meetings be held at the Downtowner. Buffet will be served and free parking is available.

Upcoming papers include: January-Lawrence Baria on Waveland Field
February-Tim Schowalter on subsurface Hydrocarbon
shows
March-Travis Hughes on Mount St. Helens

Steve Oivanki made motion to change the by-laws to clarify the membership status of students and others who study geology. Motion was seconded and passed. Publish in Bulletin for vote.

Buddy Twiner reported that the Larry Boland Scholarship Fund tax return was filed.

Charlie Williams reported that the City Auditorium and Arts Center is reserved for the 1983 G.C.A.G.S. Publications have brought in \$3,130.00 to November 9, 1981.

Steve Oivanki has line on Al Weide to lead Field Trip in April. Possibly the 7-10th. Costs through Rightway Travel are approximately \$450/person. Includes Airfare and Room. Would be a good trip to see the Smackover in outcrop.

Ladies' Night may be the 16th or 23rd of April.

Spring Bar-B-Q to be held at Fowlers Lodge Tuesday the 11, 18, 25 of May.

Need to make appeal to membership for contributions to the Scholarship Fund.

Meeting adjourned at 2:20 P.M.

NEWS RELEASE

Potential Gas Agency

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CORPUS CHRISTI — BEST PAPER AWARDS

The following papers have been selected as winners of the 1981 Best Paper Awards at the 1981 GCAGS/GCS-SEPM Convention, October 21 through 23, 1981, in Corpus Christi, Texas.

GCAGS Best Papers

First Best Paper Award and A.I. Levorsen Award (Edward C. Roy, Jr.)

A Late Cretaceous Calcarene Beach Complex Associated with Submarine Volcanism, Wilson County, Texas
Roy, Edward C., Jr. (Speaker), Department of Geology, Trinity University, San Antonio, Texas and Mark Eidelbach, Mark IV Energy and Nancy Trumbly, Placid Oil Company, San Antonio, Texas

Second Best Paper Award (James L. Coleman, Jr.)

Stratigraphic, Sedimentologic, and Diagenetic Framework for the Jurassic Cotton Valley Terryville Massive Sandstone Complex, Northern Louisiana
Coleman, James L., Jr. and Coleman, Craig J., Amoco Production Company, New Orleans, Louisiana

Third Best Paper Award

Source Rock Potential of the Austin Chalk, Upper Cretaceous, Southeastern Texas
Grabowski, George J., Jr., Exxon Production Research Company, Houston, Texas

GCS/SEPM Best Papers

Best Poster Award

Lithostratigraphy and Biostratigraphy of Paleocene Subsurface Strata in Southwest Alabama
Mancini, E.A., Dept. of Geology & Geography, University of Alabama, University, Alabama

Best Presentation Award

Genetic Characterization of Recent and Ancient Sabkha Systems
Hanford, C.R., Louisiana Geological Survey, Box G, Baton Rouge, Louisiana 70893

NOTE: The SEPM Best Published Paper Award will be announced at a later date.

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Net cost of first year's wood burning.....	\$54,185.44

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CALENDAR

January 12

MGS Noon Meeting
Capital City Petroleum Club
Smackover Room
Jackson, Mississippi

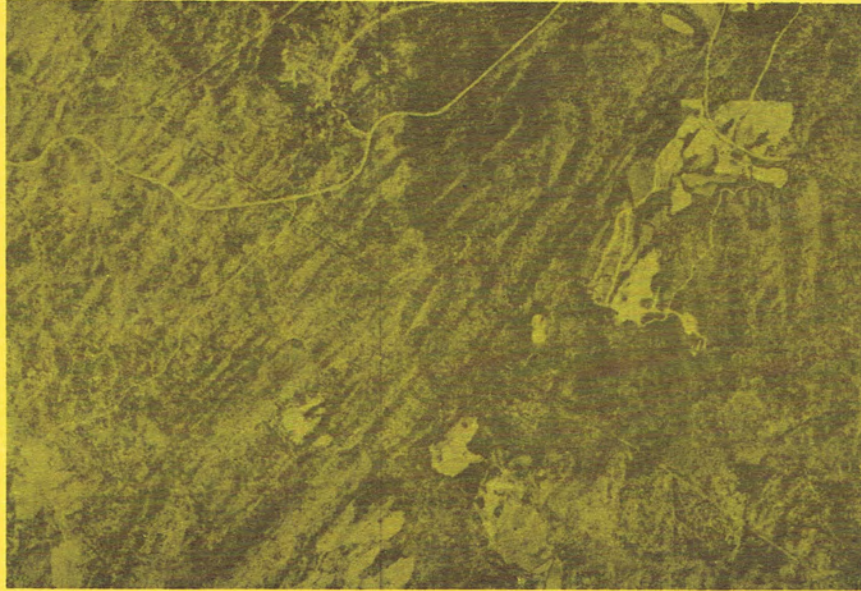


MISSISSIPPI GEOLOGICAL SOCIETY

Volume XXIX

No. 6

February 1982



1981-82



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Cont. Ed.-Larry Baria-Tideway
Entertainment-T.C. Rader-Clarkco
Program-Richard Ingram-Independent
Projection-Walter Henley-Pruet
Publications-Charlie Williams, Jr.-Mid-Continent

NEWS BULLETIN STAFF:

Editor-Justin Devery-Union
Advertising-Justin Devery-Union
Geophysics-Jim McGinnis-SSD

Cover: Aerial photo of the Lower Pennsylvanian exposed in the Blue Creek
Anticline in Tuscaloosa County, Alabama. (Submitted by Stewart Welch)

PRESIDENT'S PAGE

Well, it's not too often that a Geological Society meeting is cancelled because of snow; but that's what happened last month. The "blizzard" which hit Jackson in January kept all but the diehard geologists away from the office. I took my maps home that week rather than deal with the crazies who always seem to drive their worst during that type of weather. Of the members I talked to who managed to make it downtown in the snow, all commented that they did a lot of geology in the peace and quiet without the usual office interruptions. As a native of the deep south I can only say that I thought the snow and the resulting white landscape was truly beautiful; however, I am grateful that it is an exception rather than the rule in winter in Jackson.

At the last meeting of the Board of Directors of the Society it was unanimously moved that "Dutch" Miesse be made an Honorary Member of the Society. "Dutch" is one of the few charter members of the Society still in Jackson, and I would like to congratulate him on being awarded this honor. An honorary presentation will be made at this month's meeting.

The topic of the meeting this month is "Interpretation of Subsurface Hydrocarbon Shows", and the speaker, Tim Schowalter, is a participant in the current AAPG Distinguished Lecture Tour. Be sure to call your reservations in to T.C. Rader so that we can make sure of adequate accommodations. I hope to see most of you there.

Stephen Oivanki
President

—NOTICE—

Last spring the MGS continuing education committee sponsored a seminar on Seismic Stratigraphy. At that time we were short several issues of the course notes and some of our members who attended the seminar did not receive the companion text.

If you did not receive the course notes and desire a copy, please contact Lawrence R. Baria at 354-3776, Tideway Oil Company, to obtain one. We have a limited number of volumes available.



MAURICE E. "DUTCH" MIESSE
CHARTER MEMBER 1939
HONORARY MEMBER 1982

"Dutch" Miesse was born January 31, 1897 in Marion, Kansas. He began his geological career in 1919 doing surface mapping for National Refining Company. He continued in geology until 1935 when he transferred into land and scouting activities. He worked for Phillips Petroleum Company from 1929 until his retirement in 1962. Since then he has done some independent land work.

"Dutch" joined the Society in 1939 as a Charter Member; and he brought with him to the Society a number of the other oil scouts in Jackson at that time. He served on numerous committees during the early formative years of the Society, and he has been an active dues-paying member since 1939. The Board of Directors of the Mississippi Geological Society is pleased to announce the election of "Dutch" Miesse to Honorary Membership in the Society. A presentation will be made at the noon meeting on February 8, 1982.

SCHEDULE OF FUTURE MEETING DATES

March 9, 1982

Topic: "Mount St. Helens"

Speaker: Travis Hughes

Place: Capital City Petroleum City

Time: Noon

April 30, 1982

Annual Spring Fling-Ladies Night

Place: The Fireman's Lodge

May 25, 1982

Spring Bar-B-Que

Place: Fowler's Lodge

June 27-30, 1982

AAPG Annual Convention

Place: Calgary, Alberta-Canada

ABSTRACT

INTERPRETATION OF SUBSURFACE HYDROCARBON SHOWS

Tim T. Schowalter
Exploration Geologist
Mosbacher & Pruet Oil Producers

Hydrocarbons occur in the subsurface in four modes: (1) continuous phase oil or gas; (2) isolated droplets of oil or gas; (3) dissolved hydrocarbons; and, (4) hydrocarbons associated with kerogenous rocks. All of these modes of occurrence can result in what is described as a subsurface hydrocarbon "show". Each show type has strongly different implications to exploration and must be differentiated as the first step in show interpretation. Only continuous phase occurrences of oil and gas indicate that a trapped and potentially producible accumulation of hydrocarbons has been discovered. Free oil or gas recovery from the formation or subsurface hydrocarbon saturations of greater than 50% indicates a continuous phase occurrence.

Continuous phase shows can be interpreted quantitatively. The static hydrocarbon column downdip from a continuous phase occurrence can be calculated from one well bore if the subsurface oil or gas saturation, capillary properties, hydrocarbon-water interfacial tension, oil density, and water density of the reservoir are known. Producing wells are by definition continuous phase oil or gas, and estimates of oil-water or gas-water contacts from this type analysis can be useful in orderly and profitable field development.

Continuous phase oil or gas can extend either updip or downdip from a commercial reservoir. These continuous phase shows can also be interpreted quantitatively to determine how large an oil or gas column is required downdip to explain the show. By this method it can be determined whether an exploratory well penetrated the updip waste zone or downdip transition zone of an oil or gas field. Field studies indicate quantitative show interpretation of a non-commercial show can provide reliable estimates of the downdip hydrocarbon column. This type of data can be used in a systematic manner to explore for subtle stratigraphic and combination traps.

Biographical Data

Tim T. Schowalter

Born: Cleveland, Ohio

Education: 1966 Central Missouri State College, B.S. (Geology)
1968 University of New Mexico, M.S. (Geology)

Experience: 1968-1971 Shell Oil, Denver, Colorado, Exploration Geologist
1972-1974 Shell Development, Houston, Texas, Research Geologist
1974-1980 Kirkwood Oil and Gas, Casper, Wyoming, Exploration and Production Geology
1980-present Mosbacher and Pruet, Denver, Colorado, Exploration Geologist

Publications: Mechanics of Secondary Hydrocarbon Migration and Entrapment: AAPG Bulletin, V. 62, pp. 723-760.

Membership: American Association of Petroleum Geologists

Meeting: Monday, February 8 in the Smackover Room of the Capital City Petroleum Club.

Please phone your reservations in to T.C. Rader (969-3286) by noon, Friday, February 5. The meeting will cost \$7.00.

1981 MGS Photo-directory

The 1981 MGS Photo-directories are now available. The directories can be purchased for \$10. Please send your request to:

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Mississippi Geological Society
P.O. Box 422
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ALL ORDERS MUST BE PREPAID

A.A.P.G. The Division of Professional Affairs

With the return to its original policy of accepting membership applications directly and solely through AAPG, the Division of Professional Affairs is again experiencing rapid growth. It is anticipated that total enrollment, recently about 1,800, will pass 2,000 before long.

Acceptance for membership in the Division brings with it certification by AAPG. The Division periodically publishes and distributes a directory of its members. It presents programs at the annual conventions: the luncheon at the 1981 meeting, which was addressed by Dr. Milton Friedman, was a Division affair. A program is in effect to insure its participation in all Section meetings.

We are broadening the D.P.A. organization as well as the scope of its activities. In the past four years an Advisory Board, with members chosen from the AAPG Sections, has joined the officers in guiding the Division. At present a network of local representatives is being organized to act as liaison between members and the Advisory Board and officers. One representative from each AAPG Affiliated Society is to be selected by that Society's president. MGS President, Steve Oivanki, has appointed Gerald Kinsley to serve the Mississippi area members for a two year term.

The Division's goals as stated in the Bylaws are:

To strengthen the professional status of petroleum geologists.

To require high standards of competence among practicing petroleum geologists.

To communicate the affairs of the Division and the profession to petroleum geologists.

To communicate to the general public and to government agencies the Association's constant concern to protect the public by restricting the practice of petroleum geology to those known to be qualified, and believed to be competent and reliable.

To communicate to the general public and to governmental agencies pertinent information to legislative and administrative decisions affecting the regulation of petroleum resource exploration and development.

To maintain and administer certification requirements through a Board of Certification.

To encourage high professional standards in the training of geology majors in university departments.

To these ends the D.P.A. is expanding its membership, organization and activities. If you wish to support these goals and feel you qualify for membership, write or call Ms. Norma Payne, AAPG Headquarters, P.O. Box 979, Tulsa,

Oklahoma 74101. Broadly, the qualifications are: AAPG membership, a degree in geology from a recognized institution, 8 years experience in petroleum geology (less with advanced degrees) and a record of high professional standards and ethics.

Lee H. Meltzer
GCAGS Member of the DPA Advisory Board

AAPG

The Boy Scout Committee of the American Association of Petroleum Geologists is working on a project to get fresh water in decent volumes to the Philmont Scout Ranch in New Mexico. It has been determined that the only satisfactory solution is to drill at least one well at a cost of about \$200,000. Donations from the membership are needed if this project is to be completed. Anyone wanting to make a donation can send a check for the Philmont Scout Ranch BSA for Water Reserve Fund to Bill Milner, Director of Administration, Philmont Scout Ranch, P.O. Box 500, Cimarron, New Mexico 87714. For more information about the fund, members can contact Harold Karges at 601-352-0972.



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BYLAWS of the Mississippi Geological Society, Inc.

Most organizations periodically furnish their members with a copy of the organizational structure. As a service to the MGS membership, the society's current BYLAWS are included in this issue of the Bulletin.

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—OBJECTS

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 member if he were a 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. Associate members shall not be eligible to hold elective office or to sponsor applicants for active or associate membership, but shall have all other rights and privileges enjoyed by active members. If an associate member attains eligibility for active membership, he may apply for a transfer to active 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 that have contributed distinguished services to the Society. It is not intended nor 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. He may at his option serve on any committee. He shall, together with the Treasurer, sign all checks, drafts, contracts, and all other obligations of the Society. In the temporary absence of any other officer of the Society, he shall have the power to appoint a member to assume the duties pro tempore.

Section III (a): The First Vice President shall assume the office of the President in case of a vacancy from any cause in that office, and shall assume the duties of the President in case of the absence or disability of the latter. He shall be at the disposal of the President for any duty necessary to the proper functioning of the Society.

(b): The Second Vice President shall be responsible for the maintenance and supervision of the various publications of the Society, and he shall organize the necessary committees to properly administer the care, maintenance and revision of the publications necessary to providing current information on various subjects of geologic interest and the keeping of records.

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. He, together with the President, shall have charge of the financial affairs of the Society. He 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 August, 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. He shall prepare and distribute by mail not later than October 15, a membership list and a list of committee assignments. It shall be his duty to prepare and keep in his possession at every meeting a copy of the Bylaws with all amendments thereto. He shall be responsible for all secretarial duties connected with affairs of the Society. He 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. 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 least 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. In case no candidate receives a majority vote 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 III: Election Judges. Prior to the balloting at any election, the President shall appoint three 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 four members. To conduct business, a majority vote of those present is necessary.

ARTICLE VII—STANDING COMMITTEES

As soon as practicable taking office the President shall appoint the Chairman of seven standing committees and after consultation with these Chairmen shall appoint the Committee Membership. These committees shall be as follows:

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

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 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 the 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 of the Society whenever it is necessary.

D. The Nomenclature Committee shall consist of a minimum of five members. Its membership shall include the First Vice President of the Society and whenever possible, one member of the Mississippi Oil Scouts Association. This Committee shall promptly name any new oil and/or gas fields, reservoirs, salt domes and any other geologic feature they deem advisable in the State of Mississippi. The Vice President will be responsible in seeing that all interested operators are contacted prior to the naming of any new discovery. After naming any new discovery in the state, the Committee shall immediately notify the Secretary of the Society and such publications and regulatory bodies as they deem necessary. The Secretary of the

Society will enter any new names in the minutes and announce them at the next meeting of the Society.

E. The Program Committee: 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.

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

G. The Publicity Committee, upon notification of the Chairman of the Program Committee, shall prepare and distribute to all members in advance notice of all 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 Chairman of special committees and, after consultation with these Chairman, 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 determined by the Board of Directors at the end of each fiscal year. Any proposed increase in dues shall be presented for approval to the membership present at the last regular meeting of the fiscal year. Upon approval by a majority vote, the new dues shall become payable at the beginning of the following fiscal year which shall be from June 1st through May 31st.

ARTICLE X—MEETING

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 membership voting 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 a regular business meeting by a majority of the members present at said meeting. Returned ballots must be post marked within 30 days of the mail in order to be counted.

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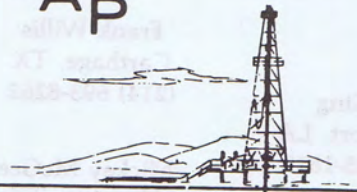
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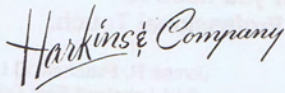
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**AAPG ANNUAL
CONVENTION
JUNE 27-30**



January 26, 1982

MEMORANDUM

TO: AFFILIATED SOCIETY EDITORS
FROM: AAPG CONVENTION DEPARTMENT
SUBJECT: AAPG ANNUAL CONVENTION, JUNE 27-30, 1982

The Canadian Society of Petroleum Geologists will host one of the largest and most productive meetings in AAPG's history, June 27-30, 1982. Nearly 500 papers will be presented in oral and poster technical sessions in widely varied topics as will be detailed in the enclosed Convention Announcement. The Announcement was mailed to the AAPG membership January 25.

Would you do us and your society members a favor? Mention the 1982 AAPG Annual Convention dates and location in your next available newsletter, or, include the description which follows?

Housing and Advance Registration is now open for the 1982 AAPG ANNUAL CONVENTION, to be held in Calgary, Alberta, Canada from June 27-30, 1982. The theme for the meeting is "Resource Round Up." Approximately 500 papers will be presented in technical sessions. The annual meeting of AAPG's Division -- SEPM, EMD and DPA, will be held in conjunction with the meeting.

During the meeting, the services of an Employment Interviews Center will be available to facilitate arranging interviews between applicants and potential employers. If you are interested in this service contact: Jim Minions, Employment Interviews Chairman, Suncor Resources Group, 500-4th Avenue S.W., Calgary, Alberta, Canada T2P 2V5, (403) 269-8198.

The Headquarter's circle of hotels will be located in downtown Calgary with exhibits in the Roundup Centre, Stampede Park. The Headquarter's office will be located in the same facility.

A supply of Convention Announcements was sent to the Society President for distribution at one of your upcoming meetings.

Your help is very much appreciated.

AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS — 67th Annual Meeting
SOCIETY OF ECONOMIC PALEONTOLOGISTS AND MINERALOGISTS — 56th Annual Meeting
ENERGY MINERALS DIVISION — 5th Annual Meeting
DIVISION OF PROFESSIONAL AFFAIRS — 13th Annual Meeting
HOSTS: Canadian Society of Petroleum Geologists



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MGS Noon Meeting
Capital City Petroleum Club
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MISSISSIPPI
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Volume XXIX

No. 7

March 1982



1981-82



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Cover: Aerial photo of Mount St. Helens, April 8, 1980.

Courtesy of Travis Hughes

PRESIDENT'S PAGE

I would like to start this message with a brief discussion of what has come to be at least a minor aggravation to most of the geologists here in Jackson and around the Gulf Coast...The inaccessibility of core and test data. How many times have you been working the logs in an area, and found that you needed to know what was in a particular core or recovered in a DST? If you were lucky, and the well was drilled, say prior to 1965, then all you had to do was look at the bottom of the log, and all the core descriptions and test data were neatly tabulated for you. If, however, the log is recent, then your quest for more knowledge would entail about a half-dozen phone calls to other operators who may or may not have the information; and then at least a week-long wait until they have the time to mail it to you. It would be of great benefit to all parties concerned if you, as an operator, would include a copy of your core descriptions, core analysis, and DST data with the well logs when they are released to the log services. It only takes a small extra effort, and you will appreciate it the next time you don't have to get on the phone to find a core.

Our next meeting is on March 9th, and the speaker is Travis Hughes, who will give his slide lecture and first hand account of the eruption of Mount St. Helens. From discussions with many of the members, I expect this talk to draw a record crowd. It is unlikely that we will be able to accommodate the anticipated crowd in the Smackover Room, so it is imperative that you make a reservation for this meeting. We will reserve space only for those who call in an advance reservation.

Plans are being made for our annual "Ladies Night" Spring Fling on April 30th. The format will be the same as last year, but we will be at the Fireman's Lodge this year to better accommodate the usual large crowd at this event. Details will be forthcoming in the next bulletin.

Stephen Oivanki
President

BOARD OF DIRECTORS MEETING
January 11, 1981

Meeting Place: Capital City Petroleum Club, Library

Members Present: Steve Oivanki, Buddy Twiner, Marshall Kern,
Frank Johnson, John Marble

Meeting called to order at 1:40 p.m.

Date for the Spring Fling is April 30th. It will be held at the Fireman's Lodge on the Reservoir. Southern Mud Logging will be sponsor.

Spring Bar-B-Q will be held on the 25th of May at Fowlers Lodge.

Field Trip to Mexico is on the 7-10th of April, Wednesday through Saturday. May need support from the Service Companies.

Votes on the proposed by-laws change concerning student memberships were tallied. 31 yes; 1 no. By-laws change passed.

Steve Oivanki made motion to publish by-laws in the bulletin. Motion was seconded and passed.

Steve Oivanki announced that Kipp Ferns and Don Turner will run for A.A.P.G. Delegate.

Harold Karges has asked for support in drilling a water well on the Philmont Scout Ranch in New Mexico. Cost of the proposed well is \$200,000.00. Marshall Kern moved that the Society pledge \$500.00. Motion was seconded and passed.

Buddy Twiner moved that M.E. "Dutch" Miesse be made an Honorary Member. Motion was seconded and approved.

Under new business the Scholarship Committee is shooting for the Fall of 1982 for the first awards. Fund stands at approximately \$26,000.

No further business. Meeting adjourned at 3:00 p.m.

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MARCH MGS NOON MEETING

Mount St. Helens

Speaker: Dr. Travis Hughes
University of Alabama

Place: Capital City Petroleum Club, Smackover Room

Time: Noon, March 9th

NOTICE

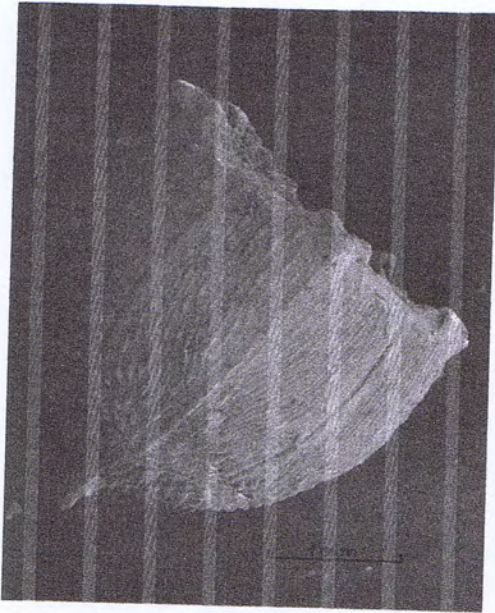
Advance reservations are required for the Noon Meeting on March 9th. Due to the expected large crowd for this meeting, reservations will be accepted on a first-come first-served basis for seating in the Smackover Room. All others will have to eat in the main dining room and stand for the program. Call your reservation in now to T.C. Rader at 969-3286.

1981 MGS Photo-directory

The 1981 MGS Photo-directories are now available. The directories can be purchased for \$10. Please send your request to:

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ALL ORDERS MUST BE PREPAID



Crinoids are rare fossils in the Upper Cretaceous of Mississippi, but in some horizons of the Prairie Bluff Chalk they are easy to find—if you have good eyes. The specimen of the planktonic crinoid *Applinocrinus cretaceus* (Bather) shown above is about 3.2 mm across and was named for the late Esther Applin, a former member of the Mississippi Geological Society. (SEM Micrograph by Ernest E. Russell)

SCHEDULE OF FUTURE MEETING DATES

March 9, 1982

Topic: "Mount St. Helens"
Speaker: Travis Hughes
Place: Capital City Petroleum City
Time: Noon

April 30, 1982

Annual Spring Fling-Ladies Night
Place: The Fireman's Lodge

May 25, 1982

Spring Bar-B-Que
Place: Fowler's Lodge

June 27-30, 1982

AAPG Annual Convention
Place: Calgary, Alberta-Canada

GUIDE FOR EMPLOYEE PERFORMANCE RATINGS

	SENIOR GEOLOGIST	ADVANCED GEOLOGIST	GEOLOGIST	ASSOCIATE GEOLOGIST	DIVISION RESERVOIR ENGINEER
PERFORMANCE FACTORS	Far exceeds job requirements	Exceeds job requirements	Meets job requirements	Needs some improvement	Does not meet minimum requirements
QUALITY	Leaps tall buildings with a single bound	Must take running start to leap over tall buildings	Can leap over a medium or short building w/o spires	Crashes into buildings when attempting to leap over them	Cannot recognize buildings at all, much less jump
TIMELINESS	Faster than a speeding bullet	As fast as a speeding bullet	Not quite as fast as a speeding bullet	Would you believe a slow bullet?	Wounds self with bullet when attempting to shoot gun
INITIATIVE	Stronger than a locomotive	Stronger than a bull elephant	Stronger than a bull	Shoots the bull	Smells like a bull
ADAPTABILITY	Walks on water consistently	Walks on water in emergencies	Washes with water	Drinks water	Passes water in emergencies
COMMUNICATION	Talks with God	Talks with the Angels	Talks to himself	Argues with himself	Loses those arguments



1982 Clastic Depositional Systems

SHORT COURSES

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INTRODUCTION

The Clastic Depositional Systems short course has successfully instructed exploration geologists and geophysicists in a variety of areas of clastic sedimentology. Instruction emphasizes the influence of depositional environments on sand body geometry through discussions of modern settings and their applications to ancient examples from western Canada and the United States. All participating lecturers are acknowledged for outstanding research and development in their particular areas of interest. In addition to their academic affiliations, each lecturer has assisted professional geological associations and several major petroleum companies with specialized training for members and employees.

COURSES

CALGARY — September 20-24, 1982

M. O. Hayes, J. C. Horne, T. A. Ryer, C. T. Siemers, J. Hopkins, G. D. Mossop
Location: Westward Inn, 119 12th Ave., SW 403/266-4611
Fees Due: Sept. 10 Fees: \$650.00 (US)

DENVER — November 1-5, 1982

M. O. Hayes, J. C. Horne, T. A. Ryer, C. T. Siemers, R. J. Weimer
Location: Plaza Cosmopolitan, 1780 Broadway 303/861-9000
Fees Due: Oct. 22 Fees: \$650.00

NEW ORLEANS — November 29 - December 3, 1982

M. O. Hayes, J. C. Horne, T. A. Ryer, C. T. Siemers, J. A. Coleman, R. Saxena
Location: Chateau Le Moyne, 301 Rue Dauphine 504/581-1303
Fees Due: Nov. 19 Fees: \$650.00

LAFAYETTE — December 13-15, 1982

M. O. Hayes, J. C. Horne, J. A. Coleman
Location: Holiday Inn/South, US 90, East 318/234-8521
Fees Due: Dec. 3 Fees: \$375.00

HOUSTON — January 17-21, 1983

M. O. Hayes, J. C. Horne, T. A. Ryer, C. T. Siemers, A. J. Scott
Location: Holiday Inn/Downtown Houston, 801 Calhoun St. at Travis 713/659-2222
Fees Due: Jan. 7, 1983 Fees: \$650.00

(Speakers and Topics to be discussed on reverse side)

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All course fees include course materials, all lecture notes, registration costs, and a cocktail hour every day. Registration forms must be completed and returned with \$100 advance. Fees must be paid in full 10 days prior to the starting date of each course. All fees must be in U.S. dollars and checks should be made payable to RPI, Inc. Confirmations will be mailed upon receipt of registration and advance. All sessions begin promptly at 8:00 am and last until 4:30 pm, followed by a daily cocktail hour. A full refund, with the exception of a \$25 service charge, will be made for cancellations received no later than 10 days prior to starting date of course. No refunds will be made after that date. Substitutions can be made at any time.

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NEW ORLEANS, LOUISIANA
OCTOBER 18-21

LOUISIANA SUPERDOME and HYATT REGENCY HOTEL

ABSTRACTS DEADLINE — MAY 21

PREREGISTRATION DEADLINE — SEPTEMBER 17

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No. 9 Taxonomic Notes, Brady's Foram. Pls., Challenger Report	\$ 8.00	\$10.00
No. 13 Dolomitization and Limestone Diagenesis	\$ 8.00	\$10.00
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No. 15 Deltaic Sedimentation, Modern and Ancient (Cloth)	\$12.00	\$15.00
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—Sales and exchanges of oil and gas properties.
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Instructor: David Bradford, CPA

Who will benefit: Independent oil producers, their bookkeepers, or other representatives, as well as accountants who wish to learn more about this area of taxation.

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March 9 - April 13

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Description: Major problems encountered by attorneys and landmen in oil and gas landwork in Mississippi will be examined. This course uses the case method of instruction and will provide valuable information regarding:

Topics: —Classification of mineral interests
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—Cotenancy problems
—Adverse possession
—Other practical problems

Instructor: Craig Castle, oil and gas attorney and businessman

Who will benefit: Attorneys and land-support people with at least one year's experience in land work will find this course extremely helpful.

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Schedule: Eight sessions, Thursdays, 7 - 9 p.m.
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—Care of equipment

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—Freshhand

—Mechanical

Drafting techniques

Geometrical construction

Definitions and abbreviations

(oil terminology)

Maps

General information

—History, types, etc.

—Latitude, longitude

—Surveys: township and range

—Reading and using

Base Maps

Geological maps

Background geology

Sources of information (where to find it and how to read it)

—electric logs

—scout tickets

—commercial reports

—commercial map services

Well spotting

—symbols

—plotting locations, regular and

—irregular sections

Map Folding

Structure Maps

—figuring subsea from log pick

—contouring faults, etc.

Geophysical (seismic) maps

Locating shot points

Identifying seismic lines

Coordinating geological and

geophysical information

Land maps - ownership and leasehold

Reading and plotting leases

Detailing information

Cross-Sections

Structural

Stratigraphic

Reproduction techniques and problems

Preparing exhibits for presentation

Planning the project

Compiling necessary information

Choosing the best medium

Using graphics, transfer products

Instructor: Dot McElroy, independent contractor

Who will benefit: The purpose of this course is to teach the basic concepts of drafting as related to the petroleum industry. The key word is "fundamentals," not "drafting," therefore, it is necessary that the participants have a working knowledge of basic drafting, preferably including ink work.

The Faculty

David F. Bradford has been a Certified Public Accountant since 1966. He has been employed by Ernst and Whinney, a national CPA firm and was the controller for Victor P. Smith, an independent oil producer. Presently, he is a sole practitioner in Jackson, MS and a member of the Mississippi Society of CPAs.

Craig Castle was graduated from Millsaps College and from Washington and Lee University. He is in private practice in Jackson and has been in the oil and gas business since 1952. Castle coordinated Millsaps' first course in oil and gas landwork.

Dot McElroy has been drafting in the oil industry over 20 years. She began her career with American Petrolina Co. of Texas. Most of this time she has been an independent contractor working with oil exploration companies, independent geologists, geophysicists, and landmen. In July, 1981, she opened Petroleum Drafting Services in Jackson, MS.

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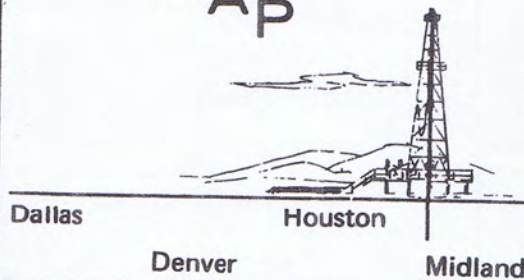
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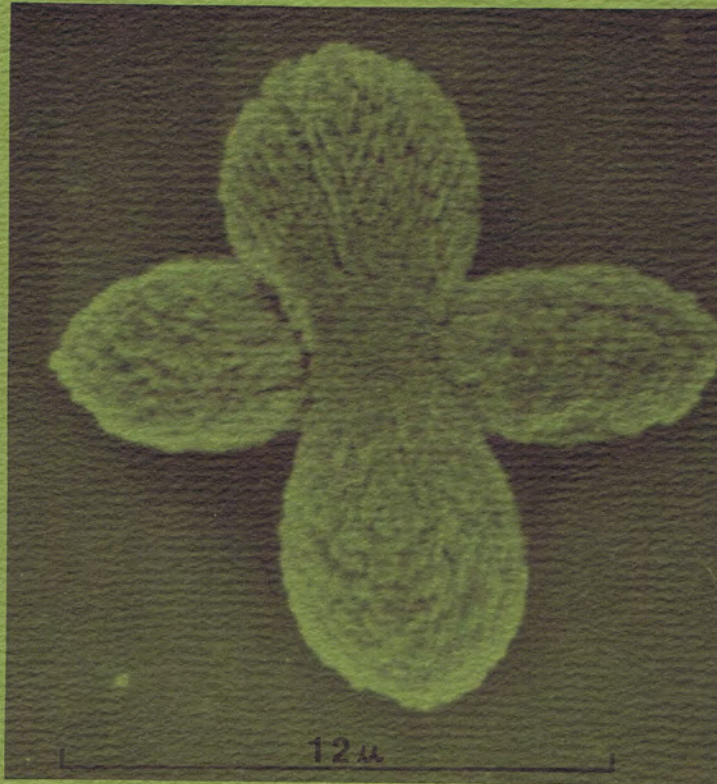


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GEOLOGICAL
SOCIETY

Volume XXIX

No. 8

April 1982



1981-82



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Cover: SEM micrograph of peanut-shaped synthetic Mg-calcite
aggregates containing 7% mol. % Mg²⁺

Courtesy of Earl Slocum

PRESIDENT'S PAGE

One of the hardest things to predict in this job is the projected attendance at the monthly meetings. As an example, at the last meeting there were 94 members and guests present, but there were 140 reservations made. Usually the opposite is true, and more people attend than had made reservations. With this month's Spring Fling we cannot afford to be off in our projected attendance, since the food is being brought in from Louisiana and can't be readily obtained locally. For this reason we are requiring that the tickets be purchased in advance, with none sold at the door. Only in this way can we be sure that adequate food and drink will be available for those who attend.

The location is also changed from last year to the Fireman's Ldodge so we can accommodate a larger crowd. The Spring Fling is being sponsored again this year by Southern Mud Logging, and the food is being hotshot delivered by Dresser Atlas. If you can, please patronize our sponsors; they have put a lot of time and money into this event to benefit you and the Society.

The election of Society officers is upcoming in May. If any of you would like to run for a Society office, please contact Marshall Kern as soon as possible. I hope to see most of you at the Spring Fling; I guarantee you will all have a good time, just ask anyone who attended last year.

Stephen Oivanki, *President*

MGS SPRING FLING

April 30, 1982 - Fireman's Lodge
6:00 p.m. - Midnight

Menu: Boiled crawfish, shrimp and new potatoes, salad, T.C.'s special shrimp dip, beer and soft drinks. All you can eat and drink.

Live band for dancing.

Door prizes for the ladies.

Tickets are \$5 per couple, and will be available at the following locations:

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Stephen Oivanki
Suite 235, 111 Capitol Building
352-3024

--Deadline for ticket purchase is April 27th. Out-of-town members who wish to order tickets should send their payment with their request to the Society P.O. Box by April 22nd. Please, only one request per member.

NOTICE: You must have a pre-paid ticket to attend, there will be no tickets sold at the door.

This event is being sponsored by:

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The crawfish and shrimp will be delivered fresh from Montegut, Louisiana by:

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*The Spring Fling is only for MGS members and their spouses or dates. No other guests.

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In order to compensate somewhat for decreasing Federal research funds I envisage establishing a contract service for stable isotope analyses at NIU. We have the capability of doing D/H, $^{13}\text{C}/^{12}\text{C}$, $^{18}\text{O}/^{16}\text{O}$, and $^{34}\text{S}/^{32}\text{S}$ analyses of high precision in a wide variety of materials including carbonates, silicates, sulfates, waters, and hydrocarbons. We are currently setting up a preparation system for paleotemperature determinations using microfossils. Since this system is designed to use very small samples, it may be of interest to oil researchers studying diagenetic processes that affect porosity of oil reservoir rocks. The service that we hope to set up is one in which we can have some of the fun of interpreting the results rather than just a facility for routine analytical determinations.

It may be of some interest that graduate students taking a course in stable isotopes (Geology 524) now get "hands on" instruction in stable isotope techniques. Since these techniques are becoming increasingly important in evaluating oil and gas fields, I think that a healthy stable isotope facility is important to those companies that employ our graduates. Incidentally, the central focus for the stable isotope laboratory at NIU is a partially automated MAT 250 mass spectrometer, probably the best commercially available instrument for stable isotope analysis.

Eugene C. Perry, Jr.
Dept. of Geology
DeKalb, Illinois 60115

NEW MEMBERS

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Clayton W. Williams, Jr.

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N.L. Baroid

Larry Vernon Busby
N.L. Baroid

Henry "Hank" McDowell
N.L. Logging Systems

Delbert E. Gann
Associate Professor of Geology

David V. Roberts
Major Mud & Chemical

SCHEDULE OF FUTURE MEETING DATES

April 30, 1982

Annual Spring Fling-Ladies Night
Place: The Fireman's Lodge

May 25, 1982

Spring Bar-B-Que
Place: Fowler's Lodge

June 27-30, 1982

AAPG Annual Convention
Place: Calgary, Alberta-Canada

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GLY 101-02	Physical Geology
GLY 103	Historical Geology
GLY 151	Introduction to Ocean Science
GLY 301	Mineralogy
GLY 311	Field Geology
GLY 426/526	Advanced Geophysics
GLY 451/551	Advanced Field Geology
GLY 630	Principles of Geology for High School Science Teachers
GLY 689	Seminar

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GLY 101L-01	Physical Geology Laboratory
GLY 101L-02	Physical Geology Laboratory
GLY 103L	Historical Geology Laboratory
GLY 301L	Mineralogy Laboratory

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Tuesday Night	Bowen
MWF-3	Bowen
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TT-A	Sundeen
ARR	Froelicher
T-T Nights	Folse
ARR	Meylan
MWF-2	Bowen
ARR	Meylan
MW-1	Staff
Wednesday Night	Staff
MW-5	Staff
TT-B	Sundeen

BOARD OF DIRECTORS MEETING
February 10, 1982

Meeting Place: Capital City Petroleum Club, Library

Members Present: Steve Oivanki, Marshall Kern, Justin Devery,
Buddy Twiner, John Marble

Meeting called to order at 1:40 p.m.

Minutes from the January meeting were read and approved.

Society will ask for core information to be released on wells so that Ridgways can put the data on the logs.

Next month's meeting will be a slide show on Mt. St. Helens by Travis Hughes. Due to the expected large turnout, motion was made and seconded to move to the Downtowner. Costs will be \$6.00/person with free parking. Steve Oivanki to check on availability.

Society of Mining Engineers (A.I.M.E.) is putting together a review of Mineral Exploration, and is seeking information on the subject. Pass to Geological Survey.

We have had numerous requests from recruits to become members. The By-Laws of the Society does not allow this type of membership, and will not be allowed in the future.

A.A.P.G. has requested a response to a booth or display for the meeting in Calgary. Costs for the booth will be \$200.00 for the space plus any furniture. M.G.S. will pass on display.

Costs for the M.G.S. Field Trip to Mexico has gone up due to Airlines and Motels. Costs now are approximately \$500.00 which includes airfare, noon meals, bus. This will also be based on the number of people which attend. \$650.00 has been contributed by Friends of the Society for the banquet and to help defray costs. There will be a \$500.00 flat charge, and the Society will pick up the difference if necessary.

Nominees for Officers of the M.G.S. are needed by May meeting. These will be elected for the coming year.

No further business, meeting adjourned at 2:00 p.m.

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If it still looks promising, submit it for the drilling budget.
If it is not drilled the first year, try again.
If it is not drilled the second year, shoot more seismic.
If less than one month remains on the leases, farm it out.

The bathtub was invented in 1845. The telephone was invented in 1870. That means if you were living in 1845, you could have sat in the bathtub for 25 years without the phone ringing.

Statistics show that the best time to buy anything is about 40 years ago.

Experience proves that most time is wasted, not in hours, but in minutes. A bucket with a small hole in the bottom gets just as empty as a bucket that is deliberately kicked over.

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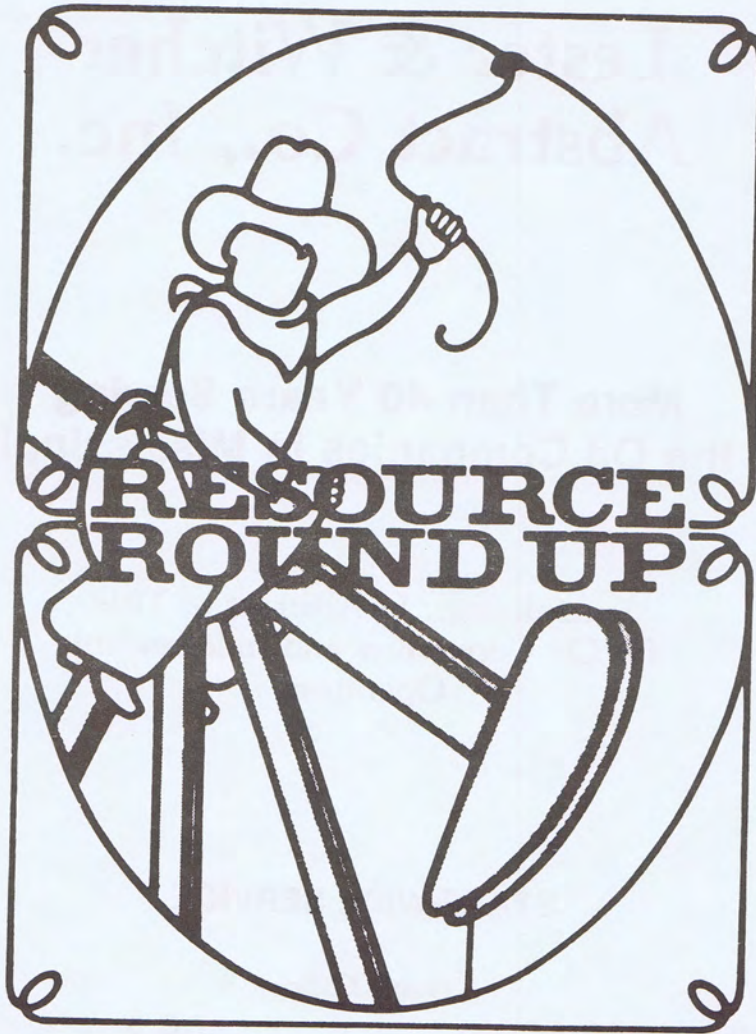
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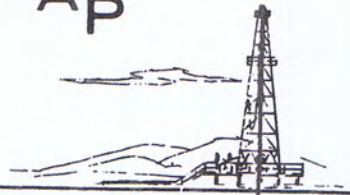
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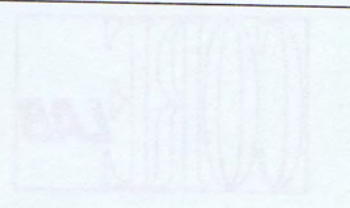
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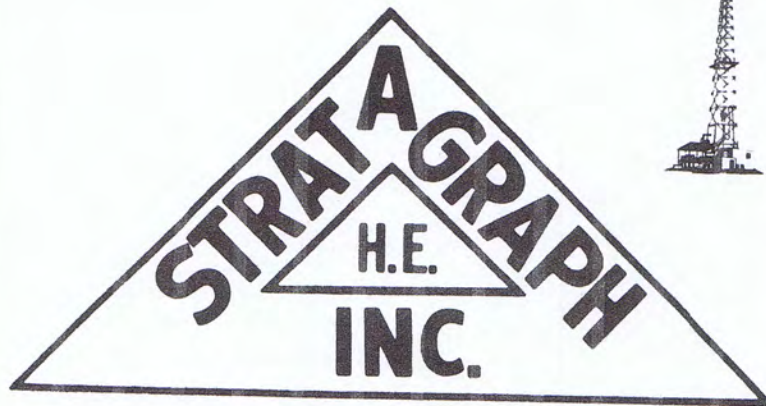
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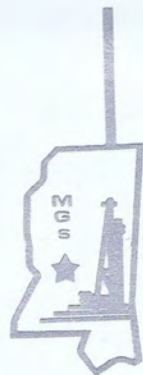
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MISSISSIPPI GEOLOGICAL SOCIETY

Volume XXIX

No. 9

May 1982



1981-82



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1st Vice President-James W. Twiner-Petroleum Resources
2nd Vice President-Charlie Williams, Jr.-Mid-Continent
Secretary-John Marble-Forest
Treasurer-Frank Johnson-Inexco
Past President-Marshall Kern-Independent

DELEGATES:

A.A.P.G.-Nestor Blanco-Placid
A.A.P.G.-Gerald Kinsley-Independent
G.C.A.G.S.-Stephen Oivanki-Consultant

COMMITTEES AND CHAIRMAN:

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Cont. Ed.-Larry Baria-Tideway
Entertainment-T.C. Rader-Clarkco
Program-Richard Ingram-Independent
Projection-Walter Henley-Pruet
Publications-Charlie Williams, Jr.-Mid-Continent

NEWS BULLETIN STAFF:

Editor-Justin Devery-Union
Advertising-Justin Devery-Union
Geophysics-Jim McGinnis-SSD

Cover: MGS 1982 Spring Field trip participants standing in the center of a large salt anticline (Louann equivalent) in the Sierra Minas Viejas, Nuevo Leon, Mexico.

Courtesy of Steve Oivanki

PRESIDENT'S PAGE

Well, the 1982 Spring Fling is history now; and those who attended might like to know that they ate some 650 pounds of crawfish, 250 pounds of shrimp, and drank 45 cases of beer in the short span of 4 hours. I feel that must surely qualify for some sort of record. In any case, if you missed it, you missed a great party. I want to take this opportunity to thank the many people who made this year's Spring Fling such a success. First and foremost I want to express my thanks to Joe Ben Jones and Southern Mudlogging for sponsoring the event and contributing a number of helpers to aid in the cooking, cleaning, and serving. The culinary expertise was provided by the combined efforts of T.C. Rader and Roger Dickerson. The shrimp, crawfish, and supplies were delivered fresh by Dresser Atlas. The counted estimate of persons attending was 320 people.

Elsewhere in this Bulletin you will find a proposed change in the Society bylaws. It concerns the problem we have each year trying to accept nominations for officers from the floor at the April meeting, which is the Spring Fling. It is almost impossible to conduct a business meeting under the conditions which prevail at this function. For this reason and also to give more time for the nominees to submit data for publication in the May bulletin before the election, it is recommended that the nominations from the floor be conducted at the regular meeting in March rather than in April. I hope you will take the time to send in your ballot on this change.

Marshall Kern and his committee have selected a worthy slate of candidates for election at the May barbecue on the 25th of this month. This is usually our biggest event of the year, so make your reservations early so we won't run out of food or drink. The barbecue is sponsored again this year by GEOTEC, and will be held at Fowlers Lodge. I hope to see most of you there.

Stephen Oivanki
President

MGS SPRING BARBECUE & ELECTION

The annual MGS Spring Barbecue will be held on Tuesday, May 25th at Fowler Lodge. Society members will be admitted to the barbecue free, while non-members will be charged \$10.00. Doors will open at 4:30 p.m. with dinner served at 6:30 p.m. There will be beer and a bar as well as door prizes. The menu includes smoked sausage, ham and beef cooked on HALLIBURTON's barbecue wagon.

The election of MGS officers for 1982-1983 will be held during the barbecue. A slate of candidates is presented in this issue of the bulletin. A brief biography of each candidate is also given. If you will be unable to attend the meeting, an absentee ballot is included in the bulletin. Please fill it out and mail it prior to May 25th to:

John Marble
Mississippi Geological Society
P.O. Box 422
Jackson, Mississippi 39205

Please phone your reservations in to T.C. Rader (969-3286) by noon, Monday, May 24th. T.C. could also use volunteers the morning of the barbecue and more to help clean-up after the festivities. So those with altruist spirits, call T.C. to offer your services.

This event is sponsored by:
GEOTEC, Incorporated

**SCHEDULE OF
FUTURE
MEETING DATES**

May 25, 1982

Spring Bar-B-Que
Place: Fowler's Lodge

June 27-30, 1982

AAPG Annual Convention
Place: Calgary,
Alberta-Canada



1981 MGS Photo-directory

The 1981 MGS Photo-directories are now available. The directories can be purchased for \$10. Please send your request to:

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ALL ORDERS MUST BE PREPAID

ABSENTEE BALLOT

MISSISSIPPI GEOLOGICAL SOCIETY Election of Officers, 1982-1983

For 1st Vice President:

_____ Charles H. Williams

_____ Tom Swisher

For 2nd Vice President

_____ C. Kipp Ferns

_____ J.R. "Bob" White, Jr.

For Secretary:

_____ Frank Johnson

_____ Stan Thieling

For Treasurer:

_____ Jeff Lundy

_____ Richard Ingram

If you cannot attend the election at the Spring Bar-B-Que on May 25th, please mark your choices on this ballot and return it as soon as possible to:

Secretary
Mississippi Geological Society
P.O. Box 422
Jackson, Mississippi 39205

Please put the word **BALLOT** on the outside of the envelope.

Note: This ballot is for absentee voting only. Regular election ballots will be distributed at the Bar-B-Que.

Signature

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SUMMER SEMESTER 1982

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GLY 422/522 Geophysical Well-logging Thurs. King

GLY 420/520 Elements of Geophysics Mon. Mahlberg

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or visit Room 114, R & D Center, 1855 Eastover Drive

**PROPOSED CHANGE IN THE BYLAWS
of the Mississippi Geological Society**

Due to the difficulty in conducting a business meeting at the April meeting, the Spring Fling, it is proposed that the nominations for officers be conducted at the March meeting instead. This requires that the Bylaws be amended as follows:

ARTICLE V - ELECTIONS

Section I: General Elections

(Proposed change) Wherever the word **April** appears in this Section, the word **March** shall be substituted in its place.

BALLOT

_____ I am in favor of the proposed change in the Bylaws.

_____ I am opposed to the proposed change in the Bylaws.

Please mark your ballot and return to:

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Mississippi Geological Society
P.O. Box 422
Jackson, Mississippi 39205

MISSISSIPPI GEOLOGICAL SOCIETY

1982-1983

FIRST VICE PRESIDENT

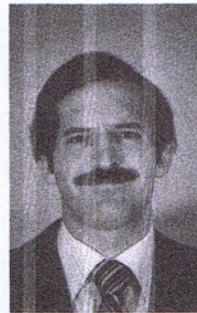


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Mid-Continent Oil & Gas Assoc.



Tom Swisher
Core Laboratories

SECRETARY



Frank Johnson
Adams Exploration Co.



Stan Thieling
Texas Oil & Gas Corp.

CANDIDATES FOR OFFICE

1982-1983

SECOND VICE PRESIDENT



C. Kipp Ferns
ANR Production Co.



J.R. "Bob" White, Jr.
Browning & Welch

TREASURER



Jeff Lundy
Champlin Petroleum Corp.



Richard Ingram
Consultant

Charlie Williams
(1st Vice President)

Academic Training:

1955 Millsaps College, B.S.
1955-56 University of Texas, Graduate Study

Experience:

1956-66 Monsanto Company
1966-69 Mississippi Geological Survey
1969-70 Independent Geologist
1970 to present Mid Continent Oil and Gas Association

Professional Affiliations:

Mississippi Geological Society, AAPG
Mississippi Association Petroleum Landman
Mid Continent Association, ASAE

Professional Activities:

2nd Vice President Mississippi Geological Society
AAPG Cross Section Committee
Red Book Committee, Editor - Wilcox Fields
Convention Chairman, GCAGS 1975
President, Petroleum Club

Tom Swisher
(1st Vice President)

Academic Training:

1974 Lamar University, B.S.
Ocean Technology/Marine Geology

Experience:

1974 to present Core Laboratories

Professional Affiliations:

Mississippi Geological Society, SPWLA

Kipp Ferns
(2nd Vice President)

Academic Training:

1952 University of Missouri, B.S. (Rolla)

Experience:

1953-80 Cities Service Company

1980 to present ANR Production Company

Professional Affiliations:

Mississippi Geological Society, AAPG

Professional Activities:

Red Book Committee, Chairman 1979-81

Photo Directory Committee 1980-81

J.R. "Bob" White
(2nd Vice President)

Academic Training:

1974 University of Alabama, B.S. in Geology

1976 University of Alabama, M.S. in Geology

Experience:

1974-76 University of Alabama, Alabama Geological Survey
(part time)

1976-78 Amoco Production Company

1978-80 Hunt Energy Corporation

1980 to present Browning & Welch, Inc.

Professional Affiliations:

Mississippi Geological Society, AAPG, SPWLA

Frank Johnson
(Secretary)

Academic Training:

1969-73 Tulane University, B.S.
1973-76 Mississippi State University, M.S.

Experience:

1975-78 Amoco Production Company
1978-80 Placid Oil Company
1980-82 Inexco Oil Company
1982 to present Adams Exploration Company

Professional Affiliations:

Mississippi Geological Society, AAPG, SEPM

Professional Activities:

1979-80 Projectionist, Mississippi Geological Society
1981-82 Treasurer, Mississippi Geological Society

Stan Thieling
(Secretary)

Academic Training:

1968 Macalester College, B.A.
1973 University of Iowa, M.S.

Experience:

1973-77 Texaco, Inc., New Orleans
1977-80 Florida Exploration Co., Jackson
1980 to present Texas Oil & Gas Corporation, Jackson

Professional Affiliations:

Mississippi Geological Society, AAPG, NOGS

Richard Ingram

(Treasurer)

Academic Training:

1975 Belhaven College, B.S. in Business Administration
1977 Millsaps College, B.S. in Geology

Experience:

1974-80 Tideway Oil Company
1980 to present Consulting Geologist

Professional Affiliations:

Mississippi Geological Society, AAPG

Professional Activities:

1981-82 Mississippi Geological Society Program Chairman
1980-81 Mississippi Geological Society Program Chairman
1980-81 Red Book Committee

Jeff Lundy

(Treasurer)

Academic Training:

1976 Millsaps College, B.S. in Geology

Experience:

1977-78 Dresser Atlas
1978-79 American Natural Resources
1979-81 Placid Oil Company
1981 to present Champlin Petroleum Company

Professional Affiliations:

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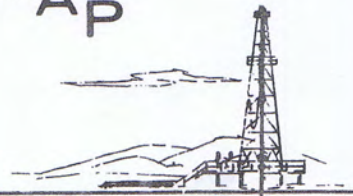
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June 27-30

AAPG Annual Convention
Place: Calgary, Alberta-Canada

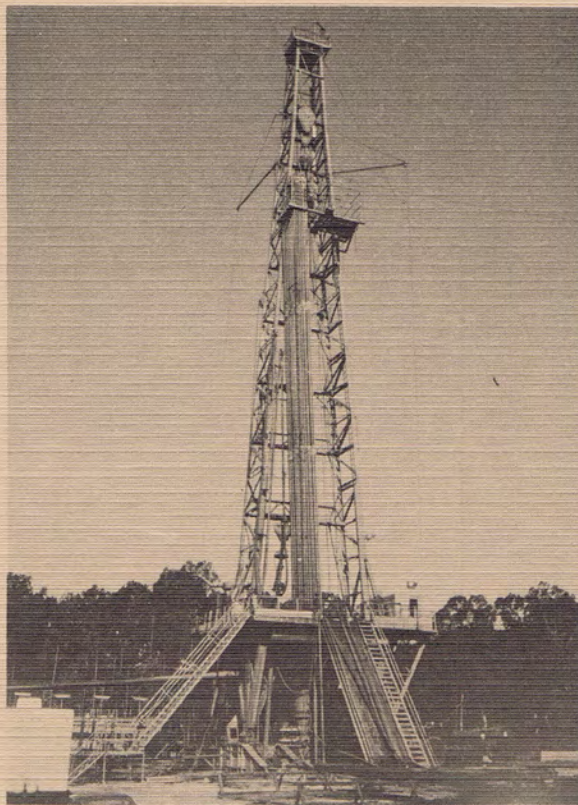


MISSISSIPPI GEOLOGICAL SOCIETY

Volume XXIX

No. 10

June 1982



1981-82



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Cover: Union Oil Company #1 Billy Brown 20-11,
Oak Ridge Field discovery well, Warren County, Mississippi
Courtesy of William Mueller

PRESIDENT'S PAGE

Well, the 1981-82 fiscal year for the Society has finally come to a close. It has been a busy, profitable, and enjoyable year for the Society; and I would like to thank you, the membership, for entrusting me with the responsibility for making it so. As is the custom for end-of-the-year reports, I would like to briefly sum up what we have accomplished this past year. Our new publication, the Photodirectory was very well received, and paid-out into the black in just a few months. The Bulletin was completely revised into a new more professional format and financed at a profit through reduced mailing fees and increased advertising. Several small but needed changes were made in the By-laws to help things run more smoothly. A very enjoyable Field Trip was held in Mexico. All of our meetings and sponsored functions were well attended by the membership. The sale of MGS publications has been transferred to Earth Enterprises, Inc. in Austin, Texas. They are better equipped to handle the ever increasing volume of sales we have experienced in the past few years.

I would like to express my appreciation to the many people who helped to accomplish what we did this past year. The officers did a fine job in performing their assigned tasks, and were always available to assist in assuring the smooth operation of all of our functions. I would especially like to thank the following:

Justin Devery-----	Bulletin Editor
T.C. Rader-----	Entertainment Chairman
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I would also like to thank again our sponsors for this year for their generous support:

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My term as your president has been enjoyable and rewarding, despite the time and work involved; and I want to thank you again for giving me the opportunity. I hope all of you will support our new president, Buddy Twiner, and will give him your help when called upon to do so. Our membership now stands at 588 members, and it will probably grow to over 600 during the next year. I wish all of you a very happy and enjoyable summer.

Stephen Oivanki
Past President

—EDITOR'S NOTE—

This issue ends my term as editor of the News-Bulletin. Before my literary star completely sets, I wish to thank Rosie Rhodes and Jan Quilty for their assistance in publishing the News-Bulletin. I also wish to acknowledge the continued support shown the News-Bulletin by our advertisers.

Mississippi Geological Society
TREASURER'S REPORT

June 17, 1981 to June 9, 1982

CREDITS:

Publications	\$ 8,260.00
Meetings	10,326.25
Advertising	6,508.00
Dues	5,277.00
Field Trip	8,290.00
Miscellaneous	890.00

TOTAL \$ 39,551.25

DEBITS:

Printing Cost	\$ 5,082.03
Meetings	9,057.79
Contributions & Scholarships	2,050.00
Postage	1,267.21
Secretarial	140.00
Office Supplies	373.03
Storage & Insurance	400.00
GCAGS & AAPG	1,049.83
Field Trip Expenses	8,307.75
Continuing Education	2,295.84
Transfer to Savings	5,414.75
Photo-Directory	2,241.95
Miscellaneous	293.96

TOTAL \$ 37,974.14

BANK BALANCE (6/17/81)	\$ 1,988.21
INCOME (6/17/81-6/9/82)	39,551.25
TOTAL	<u>\$ 41,539.46</u>
EXPENSES (6/17/81-6/9/82)	37,974.14
BANK BALANCE (6/9/82)	<u><u>\$ 3,565.32</u></u>

SAVINGS ACCOUNTS (6/9/82):

First National (Silver)	\$ 4,484.26
First National (Golden)	5,950.96
Unifirst (Golden)	4,020.63
TOTAL	<u><u>\$ 14,455.85</u></u>

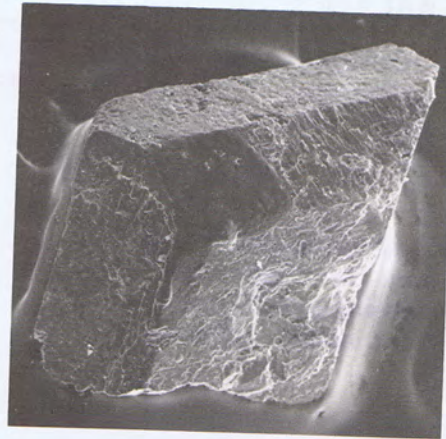
BANK BALANCE	\$ 3,565.32
SAVINGS BALANCE	14,455.85
TOTAL CASH ON HAND (6/9/82)	<u><u>\$ 18,021.17*</u></u>

*Figure does not include \$348.00 refund due from Rightway Travel Agency on Field Trip expenses and \$280.00 refund due from Tyler Distributors for Continuing Education.

Frank E. Johnson
Treasurer

The SEM photomicrographs shown below are of two minerals found in the Bayou Exploration #1 Sheppard well in Holmes County, Mississippi. These minerals were recovered from a depth of 12100 - 12110 feet.

The upper photo is of a dodecahedral magnetite crystal, approximately 1 mm in diameter. The lower photo shows a crystal of diopside, a monoclinic pyroxene, approximately 2 mm in diameter.



(Photos courtesy of David P. Elfert,
University of Southern Mississippi)

Mississippi Geological Society
NEW OFFICERS, 1982-83

President James W. "Buddy" Twiner
1st Vice President Charles H. Williams, Jr.
2nd Vice President Kipp Ferns
Secretary Frank Johnson
Treasurer Richard Ingram

BYLAWS CHANGE

The change in the Bylaws which was put up for vote in the May bulletin has been approved by the membership. The nomination for officers from the floor will now take place at the March regular meeting each year. The nominating committee will make their recommendations in advance of this meeting.

Mississippi Geological Society
PUBLICATION LIST

SPECIAL VOLUMES

1. Mississippi Geological Society
Photo Directory, 1981\$ 6.00
2. Wilcox Fields of Southwest Mississippi,
Maps and production data on 171 fields,
in ring binder, 350 pp., 196922.00
3. Mesozoic Paleozoic Producing Areas
of Mississippi and Alabama
Volume I, Maps and producing data on 57 fields,
with 2 composite logs, clothbound,
139 pp., 195710.00
4. Volume II. Maps and production data on 77
fields, includes Supplement 1, in ring binder,
143 pp., 196315.00
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 ...30.00
7. Volume II. Complete with Supplements 2-8,
361 pp., 146 fields50.00

FIELD TRIP GUIDEBOOKS

8. Upper Cretaceous Outcrops, Northeast Mississippi
and West Central Alabama, Fourteenth Field
Trip, 29 pp., May 1959 4.00
9. Cenozoic of Southwest Mississippi and
Southwest Alabama, Fifteenth Field Trip,
52 pp., May, 1960 6.00

10. Cenozoic of Horn Island and the Pascagoula Valley, 10th Annual GCAGS Meeting, 24 pp., October, 1960 2.50
11. The Paleozoics of Northwest Arkansas, Sixteenth Field Trip, 48 pp., May, 1962 5.00
12. Tertiary Type Localities of East-Central Mississippi, 25th GCAGS Meeting, 133 pp., October, 1975 5.00
13. Mississippian Rocks of the Black Warrior Basin, Seventeenth Field Trip, 79 pp., April, 1978 . . 8.00

COMPOSITE LOGS AND CROSS-SECTIONS

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4.	Facies changes in the Alabama Tertiary, December, 1966	—	4.00	—
5.	Mississippian sediments of Northern Alabama and South-Central Tennessee, December, 1967	Out of print		
5a.	Carboniferous detrital rocks in Northern Alabama, G.S.A., November, 1967	Out of print		
5b.	Geology of the Coastal Plain of Alabama, G.S.A., November, 1967	—	4.25	—
6.	Facies changes in the Selma Group in Central and Eastern Alabama, December, 1968	—	2.75	—
6a.	Cretaceous and Tertiary exposures in West-Central Alabama, G.C.A.G.S., October, 1968	—	1.75	—
7.	The Appalachian structural front in Alabama, December, 1969	Out of print		
8.	Geology of the Brevard fault zone and related rocks of the Inner Piedmont of Alabama, December, 1970	—	3.50	—
9.	The Middle and Upper Ordovician of the Alabama Appalachians, December, 1971	—	6.00	—
9a.	Guide to Alabama geology, G.S.A., March, 1972	—	5.00	—
10.	Recent sedimentation along the Alabama coast, December, 1972	—	3.00	—
11.	Talladega metamorphic front, December, 1973	—	6.00	—
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17a.	Field trips of the SE Section of the Geological Society of America, March, 1980	_____	7.00	_____
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Dallas, Texas, April 17-20

The 1983 Annual Meeting of the American Association of Petroleum Geologists and Divisions, the Society of Economic Paleontologists and Mineralogists (SEPM), Energy Minerals Division (EMD), and the Division of Professional Affairs (DPA) will be held April 17-20, 1983 in Dallas, Texas, at the Dallas Convention Center. All convention registration is being handled by AAPG, P.O. Box 979, Tulsa, Oklahoma 74101.

CALL FOR PAPERS

A technical program is being organized around the theme "Exploration Frontiers." You are invited to submit talks or posters to the program which will consist of research symposia, technical sessions and poster sessions. Proposed topics for sessions are listed below. Generally, abstracts are selected on the basis of geologic significance, informative nature, and broad interest. Material must not have been previously published or presented. All papers submitted for technical sessions will be selected on the merit of the abstract alone. Specifically invited research symposia papers will be handled separately.

ABSTRACT FORMS

Use the attached 1983 AAPG ABSTRACT FORM for submittal of all abstracts. Additional forms are available from the AAPG Convention Department, P.O. Box 979, Tulsa, Oklahoma 74101, (918) 584-2555.

Abstract forms, including those for invited symposia, must be **completely filled out** and received by the Convention Program Committee by Friday, **October 1, 1982**.

Mail all abstracts to:
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D.G.S. Office
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Abstracts must be on the 1983 AAPG ABSTRACT FORM (original or a Xerox), must be typewritten, double-spaced and 500 words or less. The word limit will be strictly followed. Submit an original plus two copies. Receipt of the abstract will be acknowledged promptly to

the speaker's address. Notice of acceptance or non-acceptance will be mailed by November 15, 1982 to the speaker's address.

"Speakers' Kits" or "Poster Kits" (with presentation schedules) will be mailed during early December to the speaker's address.

Accepted convention abstracts and any accompanying illustrations will be published in a two-column format with the column width of 20 picas (3-5/16") in the March 1983 AAPG BULLETIN. Authors who wish to submit a single key illustration to be published with the written abstract may do so under the following guidelines:

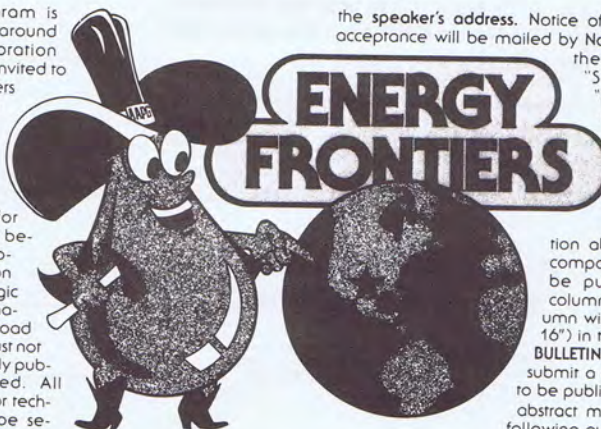
- 1) the illustration must be simple, concise and capture the essence of the paper;
- 2) it must be clearly legible when reduced to single column size (20 picas); ideally, the original illustration should not exceed twice this width (40 picas or 6-5/8");
- 3) scales should include metric units;
- 4) the written abstract must be equally understandable with or without the illustration;
- 5) the illustration can include a brief title drafted in the body of the illustration, but cannot be captioned.

The Program Editorial Committee will determine if the illustration fits the guidelines for publishing, with the final decision to be made by the Managing Editor of the BULLETIN.

Technical program chairmen will carefully screen all submitted abstracts prior to their acceptance for suitability in accordance with the convention theme and the proposed session topics. Submitted papers which do not fit proposed topics may be considered for a "general" session. Topics proposed for the 1983 convention include:

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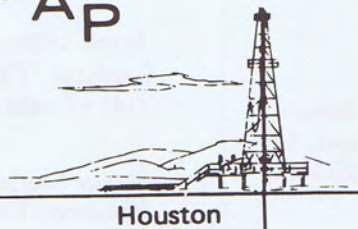
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