

NEWS

BULLETIN



mississippi geological society

VOLUME X
Number 1

SEPTEMBER, 1962

M G S E X E C U T I V E C O M M I T T E E

President	R. B. Ross	Independent Geologist
Vice President	W. F. Browning	Shell Oil Company
Secretary	M. L. Oxley	Lone Star Prod. Co.
Treasurer	L. C. Franz	Gulf Oil Corp.
Past President	X. M. Frascogna	Independent Geologist

1 9 6 2 - 6 3 C O M M I T T E E C H A I R M A N

Program	Ed Launius	Independent Geologist
Entertainment	Don Hugus	Sun Oil Company
Publications	L. B. Culligan	The California Co.
Nomenclature	Charles Bilberry	Gulf Oil Corp.
Publicity	Harry Webb	Shell Oil Company
News Bulletin	Mark Dyott	Mobil Oil Company
Projection	Jon Swett	Skelly Oil Company
Cores and Samples	Bill Moore	Miss. Geol. Survey
Boy Scout	Harold Karges	Consulting Geologist
Red Book Supplement	M. M. Phillips	Trahan Drilling Co.
	Ed Blanton	Sun Oil Company
Permanent Exhibits	Baxter Smith	Sun Oil Company
Library	L. J. Ringenberg	Consulting Geologist
Insurance	E. G. Jeffreys	Consulting Geologist
Advisory	Bill Skees	Pan American Pet. Corp.
Projects	Flemming Browning	Shell Oil Company
Type Localities	George White	Sinclair Oil & Gas Co.
AAPG District Representative		
Term Expires 1964	Rudy Ewing	Dixie Geological Service
Term Expires 1963	L. B. Culligan	The California Co.
Term Expires 1963	Dudley Hughes	Triad Oil & Gas Co.

C O M I N G E V E N T S

<u>October 1:</u>	Mississippi Geological Society, Monthly Meeting Science Hall Auditorium, Millsaps College, 7:30 PM
<u>October 31, November 1,2:</u>	Gulf Coast Association of Geological Societies, Twelfth Annual Meeting, Roosevelt Hotel, New Orleans, La.
<u>November 2, 3:</u>	Society of Economic Paleontologists and Mineralogists, Gulf Coast Section, Field Trip, Little Stave Creek and Salt Mountain Limestone, Oliver Hotel, Jackson, Alabama
<u>November 3,4,5,6,7:</u>	New Orleans Geological Society, Field Trip to Yucatan, Leaving New Orleans at noon, Nov. 3.

LETTER FROM THE PRESIDENT

Dear Fellow Members:

The News Bulletin in the past has been one of our largest expense items, and it has been financed primarily from society dues. Sagging income from advertising, resulting generally from limited circulation and unpredictable frequency of publication, has motivated us to seek methods by which the Society can issue a news bulletin which better serves the present needs of its members, at less expense. Although some sacrifice has been made in appearance, we hope to 1) issue the Bulletin at regularly scheduled times, 2) disseminate news while it is still news-worthy, 3) provide abstracts of all papers and other items of interest to be presented to the Society, if possible in advance of presentation, 4) discontinue solicitation of professional cards and solicit other advertising on a selective basis, and 5) provide you with a more effective news bulletin at considerably less cost to the Society.

It should be of special interest to our out-of-town members that our plans for the coming year include Society sponsored meetings in the Hattiesburg-Laurel and Natchez areas. We want the Mississippi Geological Society to be really what the name implies.

Papers will be presented to the GCAGS Convention in New Orleans by two of our members, Bill Moore and Harold Karges, who will preview them for us on October 1, at Millsaps College.

We will select one nominee, barring additional withdrawals, for District AAPG Representative at our October 1st meeting, three nominees having already been selected.

The Executive Council joins me in expressing appreciation for the honor you have bestowed on us, and pledge our best efforts to conduct the Society throughout the year in a manner which we hope will justify your trust.

Any comments or constructive criticism will be welcome from any member in good standing. Others will have to ante up dues first.

Sincerely,

R. B. (Bob) Ross

COME RAIN, WIND, SLEET OR SNOW

In line with the News Bulletin austerity program discussed in this month's Letter From The President, it should be mentioned here that Neely Blue Print and Supply Company has kindly agreed to compete on a limited scale with Uncle Sam in delivering News Bulletins to about one hundred and eighty members of the Society who are employees of major companies in Jackson. This is the kind of competition for which we should be thankful, as it is undertaken free of charge. Such delivery may not be appreciated by those of us who collect stamps, but it should save the Society about fifty dollars in mailing expenses.

NOTICE

Present plans for the News Bulletin are to put out one issue per month from September through May. Each issue should be in your hands on the last Thursday or Friday of the month. As this is normally when you would receive notice by postcard of the first meeting for the following month (1st Monday), The News Bulletin will be used this year as your only source of such notice. Space for same will be reserved at the top of Page 3. As you can see, this procedure still gives us benefit of the artistic talent of Lloyd Cote.

JACKSON GEOPHYSICAL SOCIETY

Dr. Sam Taylor, President of Geophysical Trade Services, will address the Jackson Geophysical Society at a dinner meeting to be held in the Arlington Room of the Robert E. Lee Hotel on Monday evening, October 15th. The topic of Dr. Taylor's talk will be "MAGNETIC TAPE RECORDING IN SEISMIC EXPLORATION."

Dr. Taylor is a native of Jackson, Mississippi, and now lives in New Orleans. He received his Masters and Doctorate degrees in geophysics from Stanford University. He was affiliated with Standard Oil Company of California until 1960, when he formed Geophysical Trade Services.

The dinner meeting will be preceded by a social hour at 5:30 P.M. Dinner reservations may be obtained by calling Bob Jones, FL 3-3895.

PREVIEW GCAGS CONVENTION PAPERS

"Basinward Frontiers" - Bill Moore
 "Lower Tuscaloosa Sand Patterns" - Harold Karges



On: Monday, October 1, 1962
 At: Science Hall Auditorium, Millsaps College
 Time: 7:30 P.M. (No Refreshments or Meal)

W E ' L L B E L O O K I N G F O R Y O U

BASINWARD FRONTIERS¹

William H. Moore²

Abstract

Beds of Mesozoic age hold much promise of further oil and gas production in Central and Southern Mississippi without getting to the point of having to use the time worn phrase of "getting farther downdip and drilling deeper." Examination of cuttings and cores from many wells in this area and correlation with electrical logs of these wells point out some areas which may contain favorable facies for oil and gas accumulation.

In Southwestern Mississippi, cuttings from the Upper Tuscaloosa in several wells suggests a return to depositional environments prevalent in Lower Tuscaloosa time. The Lower Tuscaloosa is productive in this area from deltaic and stream channel deposits, and the above mentioned wells contain sands and organic rich shales and mudstones which are very similar to the Lower Tuscaloosa. Some production is already established from the Upper Tuscaloosa and other wells have had shows.

Some new deep tests have added to knowledge of the Lower Cretaceous carbonate section in Southern Mississippi, and this information can be used in interpreting the environment of deposition of this section. No porosity trends have been established, but a few zones with some porosity are present.

In Central Mississippi, beds of Jurassic age can be reached at depths which are economically feasible to drill. In this area the Cotton Valley is for the most part continental in origin, but a few wells contain beds which may be rich enough in organic material to be source beds. The Smackover Formation has possible objective zones in this area, but the belt of probable porosity is narrow.

Stratigraphic cross sections in these favorable areas show the possible extent of favorable zones and help to explain the depositional history of these areas. Lack of identifiable fossils makes paleontological determinations difficult. Lithologic studies with consideration of the environment and paleogeography are the most useful tools of study in this area.

¹Published with permission of the Director, Mississippi Geological Survey

²Stratigrapher, Mississippi Geological Survey, Jackson, Mississippi

SIGNIFICANCE OF LOWER TUSCALOOSA SAND PATTERNS IN SOUTHWEST MISSISSIPPI

Harold E. Karges*

Abstract

The Lower Tuscaloosa formation has been a prolific oil producer in Southwest Mississippi. Several major fields have been found on both large uplifts and very low-relief structural noses. In every case development of these fields has been somewhat hampered by the erratic sand development.

Sand patterns seen in these fields indicate meandering stream channels in a deltaic environment. Recognition and projection of these patterns reduce dry hole risk in both field development and exploratory drilling.

*Consulting Geologist, Jackson, Mississippi

MINUTES OF THE MISSISSIPPI GEOLOGICAL SOCIETY

September 4, 1962

The Mississippi Geological Society held its first meeting of the 1962-63 year on Tuesday evening, September 4, 1962 at the King Edward Hotel. Bob Ross, President, called the meeting to order at 7:20 P.M. and outlined his program for the coming year.

Mr. Ross called for the nomination of four members to fill the positions of AAPG representative being vacated by Dudley Hughes and Lee Culligan. The following men were nominated: Gene Taylor (Union Producing); Ed Launius (Independent); George White (Sinclair); Dave Davis (Continental). The four nominations for AAPG representative were accepted unanimously. Subsequently, Mr. White requested that his name be withdrawn. Nominations were then re-opened, and the following names were proposed: Jim Bollman (Larco); Bruce Parmalee (Shell); Roy Worrell (Gulf). It was then moved and seconded that the fourth vacancy be filled from the three names at the next meeting. Motion passed.

Business was closed, and Mr. Ross introduced Ed Launius who in turn introduced Dr. Louis R. Brown of Mississippi State University. Dr. Brown delivered an unusual and extremely interesting talk on "Taking the Guesswork Out of Oil Finding." Essentially he discussed the patented method used by his group in exploiting micro-biological methods of exploring for petroliferous deposits. The society questioned Dr. Brown extensively following his talk.

Sixty-eight paid members were present.

Mr. Ross adjourned the meeting at 9:00 P.M.

Marvin Oxley,
Secretary

COMMITTEE REPORTS

PROJECTS COMMITTEE

At the beginning of the 1961-62 Mississippi Geological Society year, special geological study groups were initiated by L. J. Ringenberg. The primary purpose of the study groups as originally planned was assembling, classifying, and interpreting geological data. The aim of each study group is the presentation in report form of conclusions obtained from these data. If warranted, publication of the results of the work would follow.

Work is being continued on these geological projects. It is planned that most of them will be completed for presentation to the Society during this year. Geologists who are interested in participating in this program on any study group can contact the study group chairman. Some changes have been made on the study group. The geological projects and group committee members are as follows:

Regional Correlations - Jim Womack, Chairman
Merf Shelton, Jim Sullivan, John Branch, D. J. Monroe,
Tracy Lusk

Desha Basin - John Lancaster, Chairman
Lee Kincaid, W. M. Frew

Jurassic System - Jim Bollman, Chairman
George Isbell, Dee Layman, Loell Ellis

Black Warrior Basin - Marvin Oxley, Chairman
Walter Sistrunk, Ed Minihan, Bob Phillips

Neshoba Ridge - C. A. Barton, Chairman
D. C. Gifford

PUBLICATIONS COMMITTEE

To date 225 copies of the Photo Directory have been sold, but there are plenty available so place your order soon. Orders have been filled for 44 Sixteenth Field Trip Guidebooks. Publication receipts for the summer months were \$684 as compared to \$443 the previous summer. This increase is due in part to the availability of two new publications in May and June. Continued income to support the activities of the Society is in part dependent upon sale of existing publications and publication of new ones. Publications may be ordered from the Mississippi Geological Society, Publications Committee, P. O. Box 422, Jackson 5, Mississippi.

Lee Culligan, Chairman

MISSISSIPPI GEOLOGICAL SOCIETY PUBLICATIONS LIST

1. Sixth Field Trip Guidebook-Upper Eocene, Oligocene & Lower Miocene of Central Mississippi-June, 1948. \$5.00
2. Seventh Field Trip Guidebook-PreCambrian & Paleozoic Rocks of North Alabama & Southcentral Tennessee-August, 1949. \$4.00
3. Ninth Field Trip Guidebook-Claiborne of Western Alabama & Eastern Mississippi-September, 1952 \$4.50
4. Eleventh Field Trip Guidebook-Paleozoic Rocks, Central Tennessee & Northwest Alabama-May, 1954. \$4.00
5. Fourteenth Field Trip Guidebook-Upper Cretaceous of Northeast Mississippi and West Central Alabama-May, 1959 \$2.50
6. Fifteenth Field Trip Guidebook-Cenozoic of Southeastern Mississippi and Southwestern Alabama-May, 1960 \$3.00
7. Wilcox Oil Fields, Southern Mississippi & Adjacent Areas-61 Illustrations-July, 1952 \$5.00
8. General Geology of Mississippi, by Tom McGlothlin-March, 1955 \$.50
9. Wilcox Composite Electric Log-Scale 2"-100' \$.50
10. Mesozoic Composite Log of South Mississippi & South Alabama \$1.00
11. Paleozoic Composite Log of Black Warrior Basin, Miss. & Alabama \$1.00
12. Geological Map of Mississippi-Scale 1-500,000 \$3.25
13. Cretaceous Correlation Chart of Mississippi. \$.90
14. Tertiary Correlation Chart of Mississippi. \$.90
15. Paleozoic Cross Section from South Central Tennessee to Central Mississippi-Scale 1"-300' (Vert.) \$3.00
16. Mesozoic Cross Section from Concordia Parish, Louisiana to Walton County, Florida-Scale 1"-200' (Vert.). \$2.25
17. Black Warrior Basin Pre-Chester Correlation Section: East-West Section from Walker County, Alabama to Lafayette County, Arkansas; North-South Section from Giles County, Tennessee to Monroe County, Mississippi-Scale 1"-400' (Vert.) \$4.25
18. Black Warrior Basin Chester Correlation Section: Strike section from Walker County, Alabama to Lafayette County, Mississippi; Dip Section from Lauderdale County, Alabama to Clay County, Mississippi Scale 1"-400' (Vert.) \$3.00
19. Mesozoic-Paleozoic Producing Areas of Mississippi and Alabama, Clothbound, 154 pp, 57 maps of Oil and Gas Fields, 2 columnar Sections, published October, 1957 , , , \$12.50
20. Mississippi Geological Society Photodirectory-January, 1962 \$1.25
21. Sixteenth Field Trip Guidebook-Magnet Cove, Ouachita Mountains, Arkansas Valley & Ozark Highlands-Miss. Geological Society in co-operation with the Arkansas Geological & Conservation Commission-May, 1962 \$5.50

Above prices include postage.

NOMENCLATURE

On September 17, geologists with the United States Geological Survey met with representatives of the Mississippi Geological Survey and the Mississippi Geological Society to discuss proposed revisions in the stratigraphic nomenclature of Mississippi. Dr. George Cohee, Chairman of the Geologic Names Committee of the U.S.G.S., acted as chairman of the discussion group. Also representing the U.S.G.S. were Mrs. Esther Applin, Mr. Ernest Boswell, Mr. Ken Dickinson, Mr. Hoyal Eargle, and Mr. Joe Long. Representing the Mississippi Geological Survey were Mr. Bill Moore and Mr. Bill Parks. Representing the Mississippi Geological Society were Mr. Charles Bilberry, Mr. Ernie Lambert, Mr. Elmer Rice, and Mr. Bill Skees.

NOMENCLATURE (Continued)

In connection with the Atomic Energy Commission project VELVA at Tatum Dome, Lamar County, Mississippi, Mr. Eargle of the U.S.G.S. is preparing a report on the stratigraphy of an area roughly 50 miles in diameter around the dome. One of the primary purposes of this report is to correlate velocity zones with stratigraphic units. In order to follow the rules of stratigraphic nomenclature used by the U.S.G.S., certain revisions in terminology were required. Those name changes proposed by Mr. Eargle and approved by the group which will probably appear in the forthcoming publication are:

- 1) Change the bio-stratigraphic term Heterostegina Zone to rock term "Tatum Limestone" and assign it member rank.
- 2) Apply the name "Andrew Formation" to that part of the section below the Dantzler that has heretofore been referred to as Washita-Fredericksburg undifferentiated.

The Nomenclature Committee recommends that the following two areas be given new field classifications. These areas, because of low initial productive potentials, were thought to require a limited production history before being recognized as new discoveries.

IRENE FIELD

J. E. Thornhill, R. E. Williams & Campbell & Moore #1 J. D. Carter (formerly the Camellian & Dixilyn #1 Carter) well, located in Sec. 1, T2N, R6E, Amite Co., Miss. Completed September 18, 1961, flowing at the rate of 26 barrels of oil and 4 barrels water. Gravity 38 degrees. TP 50#. Through 12/64" choke. From perforations 11,182-92 in the Lower Tuscaloosa formation.

EAST HUSTLER FIELD

Trans-State Oil Company and Louis Alford #1 Kenna Heirs well, located in Sec. 25, T4N, R5E, Amite Co., Miss. Completed April 1, 1962, pumping at the rate of 24 barrels of oil per day, no water. Gravity 38 degrees API. From perforations 11,060-71 in the Lower Tuscaloosa formation.

The Nomenclature Committee recommends that the name CONERLEY FIELD be given to the new producing area discovered by the drilling of the Sun Oil Company, L. D. Elam, and Doris Ballew, Inc., #1 Dru Etta Arnouville, located in Sec. 35, T3N, R9E, Pike Co., Miss.

No official completion gauge information has been filed with the State Oil and Gas Board as of this date, however, it is reported that the well is pumping 134 barrels of 37.2 gravity oil per day with 4% BS&W, TP 25-75 psi, and GOR 344:1. Production is from perforation 10,548-58 feet in the Lower Tuscaloosa formation.

The Nomenclature Committee recommends that the name NORTH FORT ADAMS FIELD be given to the new producing area recently discovered by the drilling of the Serio-Punches #1 Rosenblatt well, located in Sec. 47, T2N, R4W, Wilkinson Co., Miss.

Completion information filed with the Mississippi State Oil and Gas Board is as follows: Completed June 30, 1962. Flowed 119 barrels of oil per day and 14 barrels water through 7/64" choke, TP 640#, no gravity reported. From perforations 8385-87 feet in the Wilcox formation.

The Nomenclature Committee recommends that the name PINE MOUNT FIELD be given to the new producing area discovered by the drilling of the J. C. Trahan Drilling Contractor Inc. #1 Winston, located in Sec. 46, T8N, R2W, Adams Co., Miss.

Completion information filed with the Mississippi State Oil and Gas Board is as follows: Completed on July 2, 1962, 24 hour test flowing on 9/64" choke at rate of 81 barrels of oil, 12 MCF gas, 3 barrels water, gravity 41 degrees, GOR 150/1, TP 230#, CP 500#, Perforations 5772-73 feet in the Wilcox formation.

The Nomenclature Committee recommends that the name SOUTH DEERFIELD FIELD be given to the new producing area recently discovered by the drilling of the Calto-Gulmon #3 Drane well located in Sec. 58, T5N, R1W, Adams, Co., Miss.

Completion information filed with the State Oil and Gas Board is as follows: Completed July 23, 1962, pumping at the rate of 129 barrels of oil per day plus 17 barrels of water, API gravity 43 degrees, GOR 250 (estimated), TP 60#. From perforations 6701 $\frac{1}{2}$ -03 feet in the Wilcox formation.

The Nomenclature Committee recommends that the name EDDICETON FIELD be given to the new producing area recently discovered by the drilling of the Lyle Cashion Company #2 Walter N. Temple well, located in Sec. 2, T6N, R4E, Franklin Co., Miss.

NOMENCLATURE (Continued)

Completion information filed with the Mississippi State Oil and Gas Board is as follows: Completed August 10, 1962, flowing at rate of 116 barrels of oil per day, no water, API gravity 40 degrees, through 6/64" choke, TP 1100#, CP 1000#, from perforations 10,531-34 in the lower Tuscaloosa formation.

TREASURER'S REPORT

Aug. 1, 1962 to Sept. 1, 1962

On Hand August 1, 1962

Checking Account	\$ 1,326.96
Savings Account	\$ 2,306.31

INCOME AND EXPENSE STATEMENT

Publications	<u>Income</u>	<u>Expense</u>
Receipts from sales	\$ 142.06	
Addressing & Mailing 250 publication lists		\$ 20.00
Service and handling charge		\$ 17.56
 Administrative		
Dues	\$ 87.00	
Drafting for paper by W. H. Moore (David S. Sherard)		\$ 285.00
 TOTALS	\$ 229.06	\$ 322.56

On Hand September 1, 1962

Checking Account	\$ 1,233.46
Savings Account (\$51.89 int. for 6 mos.)	\$ 2,358.20

Paid Membership 1962-1963 as of September 1
(Includes 5 Honorary Members).....257

Leslie J. Franz
Treasurer

SEPM FIELD TRIP

The Gulf Coast Section of SEPM announces the Little Stave Creek and Salt Mountain Limestone Field Trip, to be conducted after the 12th annual meeting of the G.C.A.G.S. Busses will leave the Roosevelt Hotel at 5:00 P.M. Friday, Nov. 2 and return to New Orleans Saturday night. The group will spend Friday night at the Oliver Hotel, Jackson, Alabama, and will spend Saturday studying rocks from Claiborne Eocene through Vicksburg Oligocene in age. Registration fee including guidebook is \$6.00. Bus fare is \$8.00.

G.C.A.G.S TWELFTH ANNUAL MEETING

The New Orleans Geological Society extends to all MGS members a cordial invitation to attend the Twelfth Annual Meeting of the Gulf Coast Association of Geological Societies and the Gulf Coast Section of the Society of Economic Paleontologists and Mineralogists. Headquarters for the joint meeting and technical sessions will be in the Roosevelt Hotel. The convention has also been designated as the Fall Regional Meeting by the A.A.P.G.

Included in the convention activities are an evening of dancing, a golf tournament, a Fashion Show and various tours for the ladies, and an impressive list of papers on Gulf Coast geology,

General registration will be held between 9:00 A.M. and 5:00 P.M. on Wednesday, October 31, in the lobby of the Roosevelt Hotel. For hotel reservations, contact Charles DeBlieux, 433 The California Company Building, New Orleans 12, Louisiana.

YUCATAN FIELD TRIP

The New Orleans Geological Society plans a Field Trip to Yucatan from Nov. 4th to Nov. 7th. Field observations will include: high and low energy beaches, lagoons and lakes where salt evaporation is being carried on locally, tidal flats, submarine dunes, lithified dune sands composed of calcareous oolites, and other shoreline features. Exposures of Pliocene-Eocene limestones will also be visited.

Cost of the trip, including plane fare, hotel expenses and most meals, registration, guidebook and ground transportation in Yucatan is \$200.00

Information can be obtained from Mr. J. A. Gilreath, Room 707, Civic Center Building, New Orleans 12, Louisiana.

Mr. Marvin L. Oxley
Lone Star Oil Co.
380 Petroleum Bldg.
Jackson, Miss.

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mississippi geological society



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Past President	X. M. Frascogna	Independent Geologist
Program Chairman	E. B. Launius	Independent Geologist

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MONDAY - NOVEMBER 5TH

ORIGIN OF OFFSHORE BARS

Sankey L. Blanton, Jr.

Abstract

Offshore bars are narrow islands, generally parallel to the coastline. They exist in response to sediment distribution, energy dissipation, and some sort of geographical and meteorological control. Once existent they create a distinct sedimentary environment which may be more stable than previously suspected.

SUN-N-SAND MOTEL

Social Hour 5:15 - 6:30 PM - Kon Tiki Room
Buffet Dinner - \$3.00 - Bali Hai Room

For Reservations call Don Hugus at FL 2-4729 by 10 o'clock Monday morning November 5th

LETTER FROM THE PRESIDENT

Gentlemen:

You claim to be geologists, and you have papers which say you are - that you have put in the time and effort to graduate from an accredited institution of higher learning. For some, the educational process came to a halt right there. Others have continued to seek new ways by which geological problems may be solved. Some of these problems may never be solved, but those which are unraveled will certainly be the result of upgraded thinking and efficient use of all the tools available. If you haven't done anything to upgrade your geologic thinking lately, perhaps a close examination of the proposed seminar discussed in this Bulletin is in order. In a nutshell - Where Do You Stand, Sir? Are You Helping With The Solution, or Are You Part of the Problem?

Well, we're gettin' ready to do down to New Orleans for the G.C.A.G.S. Convention on October 31st, and we hope all of you get to make the trip. There's gonna be two pretty good papers presented by our boys, Karges and Moore. Can't tell, some other outfit may have something whorthwhile, too. A word of warning to all those making the trip for the first time, don't forget to borrow a key to the Rabbit Warren, and if your Confederate money holds out till Saturday, don't come home via Baton Rouge. Some of the War Skule boys tell me that the Tigers haven't been fed since about this time last year.

You all try to conserve your energy and money now - at least enough to get you to our meetin' on Monday night following the convention.

Sincerely,

R. H. (Bob) Ross

MINUTES OF THE MISSISSIPPI GEOLOGICAL SOCIETY

October 1, 1962

The Mississippi Geological Society held its regular monthly meeting on Monday evening, October 1, 1962. The meeting was held in the Science Building on the Millsaps College campus. Thirty-four members were present when the meeting was called to order at 7:30 PM.

Mr. Ross asked for the introduction of guests and new members. First order of business was the election of the fourth nominee for AAPG representative. Mr. Jim Bollman of Larco Drilling Co. was elected.

Mr. Franz read the treasurer's report. Mr. Ross then read a prepared statement by Fred Mellen concerning name changes mentioned in the News Bulletin. Mr. Mellen denied having agreed to the stratigraphic name changes proposed by the USGS.

Mr. Verne Culbertson made a report on a study concerning the financial support of Society representatives to the annual AAPG convention. As a result of the study made by his group, Mr. Culbertson recommended that the Society support the AAPG representatives in the amount of \$150.00 per man at the next annual convention. Mr. Culbertson asked that this recommendation be accepted as a motion. The motion was seconded, and discussion followed. It was noted that this motion refers to the coming year only. Mr. Karges then moved that the motion be tabled until the next meeting. This motion was seconded and passed.

Mr. Bill Skees of Pan American then made a report concerning the program for upgrading the Profession in our Society. This is the same report which was made in the Executive Council Meeting.

Mr. Ross then introduced Mr. Bill Moore, who presented his paper, "Basinward Frontiers." This paper covered three prime areas in Mississippi. They are: 1) Amite, Pike, Wilkinson, and Franklin area in which the Upper Tuscaloosa has been deposited in an environment of marine conditions conducive to the formation of hydrocarbons; 2) Hancock, Pearl River, Walthall, and Marion area where possible limestone porosity trends could exist; 3) The Jurassic trend on the northeast rim of the salt basin. In this area the Cotton Valley potential is limited to the northeast by continental deposition and to the southwest by depth considerations. The Smackover is limited by the development of porosity of primary or secondary type.

Following Mr. Moore's talk, Mr. Ross introduced Mr. Harold Karges. Mr. Karges' paper, "The Significance of Lower Tuscaloosa Sand Patterns in Southwestern Mississippi,"

is a revision of the paper which he presented to the Society last year. Mr. Karges reviewed Brookhaven, Mallalieu, Little Creek, McComb, and Smithdale Fields showing the sand patterns in each field and indicated the sand volume - current velocity ratio which he considered to exist in each case. Mr. Karges then related this information to exploration thinking.

Following the talks a short question and answer period ensued. Mr. Ross then adjourned the meeting at 9:30 PM.

Marvin L. Oxley
Secretary

CORRECTION

In the September issue of the Bulletin under the heading NOMENCLATURE it was stated that a group of geologists representing the USGS, Mississippi Geological Survey, and the Mississippi Geological Society gave approval to certain name changes recommended by Mr. Eargle for the subsurface area around the Tatum Dome. In a letter to Bob Ross, Mr. Mellen of the Mississippi Geological Survey clarifies the position of the Survey regarding Mr. Eargle's proposed changes:

Mr. Robert Ross, President
Mississippi Geological Society
Jackson, Mississippi

October 1, 1962

Dear Bob:

It will be appreciated if you read the following statement to the Society, tonight. I regret my inability to be present to give it in person:

In the current Society News Bulletin under "Nomenclature" the U. S. G. S. conference of September 17 was reported. Our Survey made our position clear to Mr. Eargle that we are proceeding cautiously on the problems of nomenclature and that it might be several years before we would be ready to act on some of these with firmness and authority. Messrs. Bill Moore, our stratigrapher and Bill Parks, one of our field geologists, represented the Survey at that conference and wrote a report to us.

We want the Society to know definitely, as we have repeatedly advised Mr. Eargle and Dr. Cohee, that the Mississippi Geological Survey feels that Mr. Eargle's nomenclatural changes are being forced and that our staff members attended only as observers, further that the News Bulletin is entirely in error in suggesting that this Survey approved any of the proposed changes. The Survey may approve them or it may not. We feel officially that the matters need further study and that adequate nomenclature exists or can be developed for use in the restricted confidential report Eargle is preparing for the Federal Government.

Because our position as stated in the News Bulletin may be misinterpreted as it was reported, I will appreciate your reading this letter tonight. I am sending a copy to our friends Eargle and Cohee who fully understand our attitude, and who are, I am sure, not responsible for the news item.

Please assure the Society of our interest in cooperating in the advance of Mississippi Economic Geology.

We are attaching a release of today on a bulletin dealing with north Mississippi geology.

Very truly yours,

Frederic F. Mellon
Director & State Geologist

TULA PROSPECT

On October 1st, the Mississippi Geological Economic and Topographical Survey announced release of Bulletin 96, the Tula Prospect, Lafayette County, Mississippi. The bulletin, prepared by Survey Director Fred Mellen and Survey Stratigrapher William H. Moore, offers clues which may point to the discovery of deeply buried oil and gas deposits in the Paleozoic and pre-Paleozoic rocks of northern Mississippi.

Bulletin 96 is 29 pages in length, contains seven illustrations and two plates. It may be purchased for \$1.00 per copy, postpaid from: Mississippi Geological Survey, P. O. Box 4915, Jackson 6, Miss., or Mississippi Geological Survey, P. O. Box 337, University, Mississippi.

MGS MEMBER HONORED

Mrs. Katharine Mather of Clinton was recently honored with the highest decoration offered by the Department of the Army for exceptional civilian service. The presentation was made by Secretary of the Army Cyrus R. Vance at the Pentagon in Washington, D. C.

Mrs. Mather's citation reads "... for pioneering in use of X-ray diffraction for obtaining knowledge of constitution and composition of concrete materials."

Mrs. Mather is Chief of the Petrography Section, Concrete Division, U, S, Army Engineer Waterways Experiment Station. This installation is the principal laboratory, research, and consulting facility of the Corps of Engineers in the fields of concrete, soil mechanics, and hydraulics.

JACKSON GEOPHYSICAL SOCIETY

Jack Reese, Systems Engineer, International Business Machines Co., will address the Jackson Geophysical Society at a dinner meeting to be held in the Arlington Room of the Robert E. Lee Hotel on Monday evening, November 19th. The title of Mr. Reese's paper will be "ELECTRONIC DATA PROCESSING AS A GEOPHYSICAL TOOL."

Mr. Reese will discuss computer concepts briefly and then describe various applications of the electronic digital computer to geophysical exploration.

The dinner meeting will be preceded by a social hour at 5:30 PM. Dinner reservations may be obtained by calling Bob Jones, FL 3-3895.

TREASURER'S REPORT

October 1st, 1962

On Hand September 1, 1962

Checking Account	\$ 1,233.46
Savings Account	\$ 2,358.20

INCOME AND EXPENSE STATEMENT

	<u>Income</u>	<u>Expense</u>
Publications		
Addressing and Mailing Lists		\$ 20.00
Administrative		
Dues	\$ 144.00	
Exec. Meeting Heidelberg Hotel		\$ 6.11
Slides for W. H. Moore		\$ 66.67
Stamps		\$ 8.00
Newsletter		
Printing		\$ 67.60
Entertainment		
Golf Tournament Prize		\$ 20.00
Meetings		
Income from Beverage	\$ 25.10	
Addressing and Mailing Notices		\$ 53.06
Project Rental		\$ 7.80
Tickets for Beverage		\$ 2.08
Totals	\$ 169.10	\$ 251.32

On Hand October 1, 1962

Checking Account	\$ 1,151.24
Savings Account	\$ 2,358.20

Paid Membership 1962-1963 as of October 1.....314

Leslie J. Franz
Treasurer

NOMINEES FOR AAPG OFFICES 1963-64

The following is a list of nominees for offices in the AAPG for 1963-1964. Additional nominations may be made by written petition of fifty, or more, members in good standing received at Association headquarters not later than November 15th.

President

B. W. Beebe

Independent geologist, geophysicist, Boulder, Colorado
Born July 15, 1913, Udall, Kansas; academic training at Univ. Wichita, Calif. Inst. Technology; experience with Shell Pet. Corp., British American, Lerke & Whartan, Bay Pet. Co., Anderson Pritchard, Manhart, Millison & Beebe, and Keating Drl. Co.; AAPG activity Distinguished Lecture Comm., Chm., Business Comm., Vice Pres., Ed., Natural Gas of North America, Tech. Program Comm.

John C. Sproule

Consulting Geologist & Engineer, J. C. Sproule & Assoc., Ltd., Calgary, Alta,
Born May 13, 1905, Edmonton, Alberta; academic training at Univ. Alberta, Univ. Toronto; experience with Univ. Toronto, Canada Dept. Mines & Tech. Surveys, Ontario Bur. Mines, Geol. Survey Canada, Imperial Oil Ltd., Internat. Petr.; AAPG activity Business Comm., Comm. for Publication

Vice-President

Parke A. Dickey

Head, Dept. Earth Sciences, Univ. Tulsa
Born March 3, 1909, Chicago, Ill.; academic training The Johns Hopkins Univ.; experience Lago Pet. Corp., Tropical Oil Co., Pa. Geol. Surv., Forest Oil Co., Quaker State O. R. Corp., Carter Res. Lab. (Jersey Prod. Res. Co.); AAPG activity Distinguished Lecturer, Research Comm., Chm., Tech. Prog. Chm., Associate Editor, Bulletin

Thomas H. Philpott

Executive Mgr., Nilo Oil Co., New Orleans, La.
Born July 19, 1919, Chicago, Ill.; academic training Okla. City Univ., Univ. Okla.; experience Standard Oil Co. of La., The Carter Oil Co., Centenary College, Olin Oil & Gas Corp., Humble Gas Transmission Corp. & Humble Oil and Ref. Co.; AAPG activity Comm. for Publication, Geol. Names & Correl. Comm., Medal Award Comm., Business Comm., Distinguished Lect. Comm., Chm.

Secretary-Treasurer

Robert E. King

Chief Exploration Geol., Am. Overseas Petrol. Ltd., New York, N. Y.
Born Sept. 20, 1906, Ann Arbor, Mich.; academic training Univ. Iowa, Yale Univ.; experience Texas State Bur. Econ. Geol., Texas Co., res. geol. Mexico, Magnolia Pet. Co., Socony-Vacuum Oil Co., Shell Oil Co., Superior Oil Co.; AAPG activity Chm., Business Comm., Vice-Chm., Ann. Meeting, Comm. for Publication, Sec-Treas.

Editor

John C. Hazzard

Geol. Supervisor, Union Oil Co. of California, L. A.

John M. Parker

Dist. Mgr., Kirby Petroleum Co., Denver, Colo.

GOVERNMENT EMPLOYMENT

The United States Civil Service Commission announced on October 9th an examination for geologists for duty with the U. S. Geological Survey, Bureau of Mines, and Bureau of Land Management in Grades GS-5 and GS-7, paying from \$5,335 to \$6,345 per year. Most positions are located in the United States, although a few may be filled in overseas areas. Besides meeting certain educational requirements, applicants will be required to take a written test containing questions in all fields of geology. Applicants must file Form 5000-AB with the Executive Secretary, Board of United States Civil Service Examiners, Geological Survey, Department of the Interior, Washington 25, D. C. not later than December 4th. This form can probably be obtained from local Post Offices, or if not, from the Board of Examiners at the above address. The announcement for the test for geologists bears number 288B.

GEOSCIENCE ABSTRACTS

Geoscience Abstracts, a monthly journal dedicated to abstracts of the scientific literature in the fields of geology, solid earth geophysics and related areas of science, is currently seeking to provide regular comprehensive coverage of the following journals through volunteer abstractors, or through improved cooperation of societies, publishers, or agencies: Canadian Geographical Journal; Economic Geology (Unabstracted notes and discussions); Engineering and Mining Geology; Gems and Gemology; National Academy of Sciences (U. S.), Proceedings; Virginia Polytechnic Institute, Bulletin of Engineering Experiment Station. Any individual willing and able to provide for systematic coverage of any of these journals in the fields mentioned above may write Martin Russell, Managing Editor, GeoScience Abstracts, c/o American Geological Institute, 2101 Constitution Ave., N. W., Washington 25, D. C.

NOW HEAR THIS

Should you find your name listed below you may assume that Les Franz has not yet received your dues for the present Society year. If you are planning to join the Society this year please get your dues in soon. This listing is not made to embarrass anyone, but rather to serve as a reminder to those who have forgot!

Albright, Baker, Bilberry, Boland, Bollman, Boswell, Brasfield, Buchanan, Burroughs, Callahan, Carl, Carney, Curvin, DeKay, Dornbusch, Ehrhardt, Fietz, Fitzgerald, Fry, Hagan, Harris (E.), Harvey, Henderson, Hewitt, Hook, Horton (L.), Horton (M), Horstman, Hutto, Jung, Kallsen, Kemp, Kemper, Kern, Kincaid, Kolb, Lancaster, Lang, Lopez, Lott, Lukert, Lusk, McGowen, Mabry, Mann, Magnuson, Mather (B), Milner, Molsberry, Murphy, Osburn, Oyler, Perryman, Poe, Ramsdell, Ramsden, Ring, Sestak, Sims, Smith (B.), Stripling, Sullins, Taylor, Rushing, Trichel, Vesper, Webster, Werren, West, Wilson, Wise, Yarbrough, Arnaud, Byrd, Caon, Collins, Demint, Gunther, Giffin, Gilbert, Griffith, Griffin, Luke, McClelland, Pitts, Player, Wheat!

TRANSFERS

The following changes have occurred in the local oil patch recently:

J. O. Wafer, geologist with Conoco transferred to Jackson from New Orleans
B. D. McGrath, former Jackson District Geologist with Texaco transferred to Dallas and promoted to Assistant Division Geologist
J. G. Goodwin, Texas Co., transferred from Dallas to Jackson as Dist. Geologist
H. J. Holmquest, Mobil, transferred from Jackson to Midland
Jack McCunn, Mobil, transferred from Midland to Jackson

NOTICE

Besides being sent to local geologists actively participating in the search for oil and gas, this Bulletin makes its way to a good number of universities, a few state geological surveys, and member societies in the GCAGS. In all probability, these groups often have geological information which would be of interest to members of the Society. Geological items of interest may be sent to Editor, Mississippi Geological Society News Bulletin, P. O. Box 685, Jackson, Mississippi.

COMMITTEE REPORTS

PROJECTS

The Warrior Basin Study Group is presently working on structure and isopach maps of the Basin. Group chairman Marvin Oxley reports that core analysis data on the Mississippian Chester section is needed. If anyone is able to provide same, please contact Marvin at FL 2-8357.

PUBLICITY

The function of the Publicity Committee is to disseminate information about Society meetings, special activities, and publications. This is done through the media of the Bulletin, local newspapers, and radio stations, and by use of postal announcements.

Last year Society monthly meetings were announced by means of cards embellished with cartoons. Now notice of coming events is posted in the News Bulletin along with an abstract of the talk to be presented. Out-of-town speakers are advertised by pictures and news releases in local newspapers. These announcements keep our membership informed of society activities and keep the name of the MGS before the public.

There are now some 21 publications edited by the Society for sale. In the past, notification of these has been made with varicolored cards with order blanks. These have been sent to neighboring geological societies, state geologists, and selected oil men in the Southeastern U. S. These cards have also been distributed at various geological conventions. The AAPG Bulletin has featured several ads for Society publications. This year college libraries and geological departments throughout the U.S. will be sent these cards. The AGI Directory of Geoscience Departments lists over 250 colleges in the U.S. which now grant degrees in geology. This should be a fertile field for society publications. Importance of publication sales is shown by receipts of over \$200.00 per month. These enable our Society to continue publishing scientific information on local geology. Have you checked to see what publications you need for your work and library?

At present the Publications Committee is composed of Harry Webb, Verne Culbertson, and Lloyd Cote. If you would be interested in helping us publicize our Society, or if you have any constructive suggestions regarding meeting notification or publication sales methods please contact Harry Webb, Shell Oil Co.

ADVISORY

Let's face it. A person's education tends to become obsolete within 10 years of graduation from college. Many of us are 10 or more years out of college, and "much water has gone over the dam" in that period of time insofar as geological thinking is concerned. What is needed by many is a review of our science as it exists today. This review could best be achieved by each of us dropping everything and returning to college for a year or two. A possible alternative, and one I hope we all use, is staying abreast of current thinking by means of published material in our various Society publications. The first solution is out of the question for most of us; the second is at best a poor substitute because much of the material either is unknown to us or else not readily available. However, the latter approach could be supplemented in a very favorable manner - if we are willing to pay the price.

One approach to bringing us out of obsolescence would be the bringing in of outstanding individuals in our profession on an organized basis to teach us the things we have forgotten or missed, or recent developments to which we have not been exposed. There are people within our Society who could contribute greatly to a training program; however, this approach is not likely to succeed because of company restrictions and the press of daily business. The best solution then would be to bring in outstanding college professors and possibly certain consultants on a scheduled cash basis.

What is our prime reason for existing insofar as being a geologist is concerned - to find oil! Essentially, applied petroleum geology is the search for hydrocarbons entrapped in porous, permeable rocks. This statement presents a basic outline for study:

- I. Porous, permeable rocks
 - II. Hydrocarbons
 - III. Trapping mechanisms
-
- I. Porous, permeable rocks
 - A. Sandstone
 1. Depositional environment
 - a. Marine
 - b. Continental
 - c. Transitional
 2. Cementation and porosity
 - a. Primary
 - b. Secondary
 3. Criteria for recognition of different deposits

4. Time and rock correlations
 - a. Faunal assemblage
 - (1) Correlation
 - (2) Environmental indicators
 - b. Unconformities and their significance

B. Carbonates

1. Classification of various carbonates
 - a. Clastic
 - b. Reef
 - c. Chemical
2. Dolomitization - how does it occur
3. Porosity
 - a. Primary
 - b. Secondary

II. Hydrocarbons

- A. Habitat of oil
- B. Chemistry of oil
- C. Bacterial origin of oil

III. Trapping mechanisms

- A. Continent building
 1. Mechanics of faulting and folding
- B. Hydrodynamics

To the above might well be added:

IV. Salesmanship of ideas

SUGGESTED TOPICS AND POSSIBLE SPEAKERS

It should be emphasized that the speakers suggested for the topics listed below are not necessarily those which would present these papers. Their names are listed strictly as possibilities, and as indicators of the quality level we would be looking for.

Speaker: (Dr. Grover Murray - L.S.U.)

Subject: "Resumé of Significant Changes in Geological Thinking in the past 15 Years"

Speaker: (Dr. J. L. Dally - Pan American Petroleum Corp., Fort Worth, Texas)

Subject: "Geosynclines and the Tectonic Framework of Sedimentation"

Dr. Dally was a student of Marshall Kay and taught at the University of West Virginia for several years. He is an excellent speaker and is well prepared to cover the subject.

Speaker: (Society member)

Subject: "Critical Environments of Deposition"

This subject matter could be presented by some able member of the Society after a review of articles by J. L. Rich in G.S.A. Bulletin Vol. 62 pp. 1-20. Same author A.A.P.G. Bulletin Vol. 35 No. 9, 1951. Malkin, D.S. and Jung, D. Pt. I Vol. 25, p. 2010 and Pt. II Vol. 32, 1948, p. 252. U.S.G.S. Professional Paper 193 - F, "Transgressive - Regressive Cretaceous Sediments in the Southern San Juan Basin." Various other papers of value were prepared by A.P.I. and appear in A.A.P.G. publications, i.e., Kuenen, Ph. H. (1958), "Recent Sedimentation as a key to Ancient Deposits," A.A.P.G. Volume, "Habitat of Oil."

Speaker: (Dr. M. T. Heald - Professor at West Virginia)
Subject: "Post Depositional Changes in Sediments"
Suggested program would be a lengthy lecture followed by three 8 hour sessions of "lab" review to work with microscope and thin sections.

Possible items of interest:

- I. Cementation
 - A. Secondary Quartz
 - B. Secondary Carbonate
 - C. Secondary feldspar
- II. Replacement
- III. Order of deposition of secondary minerals
- IV. Pressure solution
- V. Time of cementation
- VI. Secondary porosity

Speaker: (Dr. John E. Sanders - Yale)
Subject: "Deposits of the Warrior, Arkoma, Anadarko, and McAlester Basins"
Dr. Sanders is an expert on turbidity current deposits, flysch, and molasse type deposits and their related environments. His observations will be of interest to those following the development in north Mississippi.

Speaker: (Fisk - Humble Oil & Refining)
(Possibly other speakers are available from other major oil companies. Shell, in particular, has done considerable work in this field).
Subject: "Stream Channel Deposits and Their Significance to Petroleum Geology"
Emphasis should be placed on the geometry of deposits, sediment characteristics, and diagenetic change. Criterion for recognition of such deposits is little understood, particularly in the subsurface.

Speaker: (Dr. Wm. R. Walton - Pan American Petroleum Corporation, Houston, Texas)
Subject: "Use of Fossils as Facies Indicators"
A portion of this lecture could be "Fossils as Indicators of Geologic Age."

Speaker: - - - - - Humble, Mobil, Gulf, or other
Subject: "Status of Paleobotany in Present and Future Correlations"
Each of the above companies has made outstanding progress in this field, Possibly one of them could furnish a qualified speaker.

(continued on page 10)

IMPORTANT

Before proceeding further on this rather complex undertaking it is vital that the views of the membership may be ascertained. Please take time to fill out this questionnaire and then mail it to Bill Skees, Pan American Petroleum Corp., Jackson, Mississippi or leave it at the front desk before the meeting this Monday night. It would be of great help if someone from each major company would be responsible for fathering up these forms, which could then be mailed together. This questionnaire does not represent a commitment in any manner whatsoever.

- - - - - Cut Here - - - - -

- | | <u>Yes</u> | <u>No</u> | |
|----|--------------------------|--------------------------|---|
| 1. | <input type="checkbox"/> | <input type="checkbox"/> | I am interested in the program. |
| 2. | <input type="checkbox"/> | <input type="checkbox"/> | Should this program become a reality I would be willing to pay a registration fee of from \$25.00 to \$50.00 (probably about the equivalent cost of a three hour college extension course). |
| 3. | <input type="checkbox"/> | <input type="checkbox"/> | I would be interested in the program even though it might spread out over one or two years. |
| 4. | <input type="checkbox"/> | <input type="checkbox"/> | I would prefer this as the only official society program for a year. |

Please attach any comments you may have.

Speaker: (Dr. R. L. Folk - University of Texas)

Subject: "Classification of Limestone"

This subject should be handled first with a lengthy lecture, followed by three 8 hour "lab" sessions. These sessions should cover the identification of the various limestone facies and their significance to petroleum geology. (See A.A.P.G. Vol. 43 No. 1, 1959)

Speaker: Society Member to review and present highlights of various recommended papers on carbonate deposition

Subject: "Origin of Porosity in Carbonate Rocks" by R. C. Murray, Journal of Sedimentary Petrology Vol. 30 No. 1 "Deposition of Evaporites," P. C. Scruton, A.A.P.G. Vol. 37 No. 11, 1953, & Vol. 40 No. 12, 1956. "Depositional Topography," Van Siclen, A.A.P.G. Vol. 42, 1958

Speaker: - - - - - Shell?, Humble?, Gulf?

Subject: "Chemical Aspects of the Origin of Oil"

- I. Chemical composition
- II. Types of petroleum constituents
- III. Origin of oil
- IV. Hydrocarbons in source beds
- V. Marine vs. non-marine environments

Speaker: (Dr. C. H. Oppenheimer - University of Miami)

Subject: "Significance of Bacteria to Geological Processes"

Dr. Oppenheimer has had extensive experience in this field at Scripps Institute, at Pan American's Research Center, Texas Marine Station at Port Aransas, and at the University of Miami. He has spoken to this Society to a limited audience. His material was recognized to have been one of the best ever to have been presented to our Society and is worthy of a repeat.

Speaker: - - - - -

Subject: "Tectonic Framework of the U. S. A."

Speaker: - - - - -

Subject: "Mechanics of Faulting and Folding"

Speaker: - - - - - (U.S.G.S. ? Cartographer)

Subject: "Construction of Illustrations and Presentation of Ideas"

Speaker: (King Hubbard - Shell Oil Co.)

Subject: "Hydrodynamics and the Entrapment of Oil"

Speaker: - - - - -

Subject: "Salesmanship of Ideas"

Mississippi Geological Society
P. O. Box 685
Jackson, Mississippi

Mr. Marvin L. Oxley
Lone Star Oil Co.
580 Petroleum Bldg.
Jackson, Miss.

NEWS

BULLETIN



mississippi geological society

VOLUME X
Number 3

NOVEMBER, 1962

M G S E X E C U T I V E C O M M I T T E E

President	R. B. Ross	Independent Geologist
Vice President	W. F. Browning	Shell Oil Company
Secretary	M. L. Oxley	Lone Star Prod. Co.
Treasurer	L. C. Franz	Gulf Oil Corp.
Past President	X. M. Frascogna	Independent Geologist
Program Chairman	E. B. Launius	Independent Geologist

1 9 6 2 - 6 3 C O M M I T T E E C H A I R M E N

Program	Ed Launius	Independent Geologist
Entertainment	Don Hugus	Sun Oil Company
Publications	L. B. Culligan	The California Co.
Nomenclature	Charles Bilberry	Gulf Oil Corp.
Publicity	Harry Webb	Shell Oil Company
News Bulletin	Mark Dyott	Mobil Oil Company
Projection	Jon Swett	Skelly Oil Company
Cores and Samples	Bill Moore	Miss. Geol. Survey
Boy Scout	Harold Karges	Consulting Geologist
Red Book Supplement	M. M. Phillips	Trahan Drilling Co.
	Ed. Blanton	Sun Oil Company
Permanent Exhibits	Baxter Smith	Sun Oil Company
Library	L. J. Ringenberg	Consulting Geologist
Insurance	E. G. Jeffreys	Consulting Geologist
Advisory	Bill Skees	Pan American Pet. Corp.
Projects	Flemming Browning	Shell Oil Company
Type Localities	George White	Sinclair Oil & Gas Co.
AAPG District Representative		
Term Expires 1964	Rudy Ewing	Dixie Geological Service
Term Expires 1963	L. B. Culligan	The California Co.
Term Expires 1963	Dudley Hughes	Triad Oil & Gas Co.

D E C E M B E R M O N T H L Y M E E T I N G

Don't Miss -

Upper Jurassic Stratigraphy of Mississippi and Alabama

by
Kendell Dickinson
USGS-Fuels Branch

On: Monday, December 3, 1962
At: Sun n' Sand Motel
Time: Social 5:15 P. M.
Buffet Supper 6:30 P. M.



For Reservations notify Don Hugus, FL 3-4729 or P.O.Box 850, by 10 a.m., Monday, Dec. 3rd.

LETTER FROM THE PRESIDENT

Gentlemen:

The response from local members in re our proposed educational project has been something less than overwhelming. To date only thirty-three questionnaires have been returned to your Advisory Chairman, Mr. Bill Skees. All favor the project in one form or another, but they constitute only ten percent of the total membership. It is just as important, if not more so, for your leadership to know how many oppose such an undertaking; so, if you haven't already returned your clip-out, please use the one included in this issue, and return it immediately.

Some questions apparently still exist in the minds of some members as to meeting announcements. The program, date, time, and speaker will be printed on the front page of this bulletin and each ensuing issue. However, in order to extend a more personal invitation and to remind those members preoccupied with other matters, a post card notice of the next meeting will be sent to each person on our mailing list. If you don't get the word for our next meeting (December 3), please check with the Treasurer, Mr. Les Franz. You may have overlooked your dues, or we may not have your correct address.

Your Program Chairman, Mr. Ed Launius, has arranged for the following speakers for the immediate future:

Mr. Dudley Hughes, Triad Oil and Gas Company,
"Summerland Field," January 7, 1963.

Mr. Verne Culbertson, Independent Geologist,
"Church Hill Field," February 4, 1963.

The Society owes Lee Culligan a vote of thanks for getting our exhibit booth in shape for and shipping it to the GCAGS Convention, which was well attended by our members. The GCAGS meeting will be held in Shreveport next year. It was originally planned for Hot Springs, Arkansas, with Shreveport as host, but subsequent investigation of the east bank of the Red River revealed that the same attractions existed closer to home --- Bossier City.

Preparations are underway to hold what is probably the first Society-sponsored meeting outside of Jackson. Mr. Sankey L. Blanton, Jr., Sun Oil Company, will present his most thought-provoking paper, "Origin of Offshore Bars," to members and interested guests of the Mississippi Geological Society, in Hattiesburg, Mississippi during the third week in January. Mr. Allen Jackson, Humble Oil & Refining Company, is making arrangements for this session, and all members in the Laurel-Hattiesburg area are urged to attend. Plans are also being formulated for a meeting in the Natchez area. Mr. Buck Gulmon is making arrangements there.

R. B. (Bob) Ross

MINUTES OF THE MISSISSIPPI GEOLOGICAL SOCIETY

November 5, 1962

The Mississippi Geological Society held its regular monthly meeting on Monday, November 5th, 1962 at the Sun-n-Sand Motel. Sixty members were present when the meeting was called to order at 7:10 by President Bob Ross.

He reported that the GCAGS Convention in New Orleans had 1455 registrants, the largest enrollment in its twelve year history.

It was announced that a joint meeting with the Jackson Geophysical Society will be held on January 21st. The subject will be "Case History of Tinsley Field."

The Treasurer's report was then read by Mr. Franz.

Mr. Skees reported numerous responses to the educational program as outlined in the News Bulletin. He indicated that he was gratified by the response he was receiving.

Mr. Ross introduced Mr. Launius, Program Chairman, who in turn introduced Mr. Sankey Blanton. Mr. Blanton presented a paper entitled "The Origin of Offshore Bars."

Mr. Ross adjourned the meeting at 8:30 PM.

Marvin L. Oxley
Secretary

Kendell A. Dickinson*

Abstract

The Upper Jurassic of Mississippi and southwestern Alabama comprises an entirely subsurface sequence of evaporites, carbonates, sandstones, and shales about 5000 feet thick. These rocks are correlated with the following formations of northern Louisiana and southern Arkansas; Norphlet (oldest), Smackover, Buckner, Ivy (new formation equivalent to upper Haynesville and Bossier), and Schuler. The object of this study has been to determine the lithologic sequences, boundaries, details of correlation, and geologic history of these strata.

The Norphlet Formation is a red poorly sorted feldspathic anhydritic non-marine sandstone, that underlies the Smackover Formation in nearly all areas under discussion. It reaches a thickness in excess of 400 feet in southeastern Mississippi and southwestern Alabama. It grades upward into the Smackover Formation and overlies the Louann Formation unconformably.

A threefold division and a basinward evaporite facies are recognized in the Smackover Formation in Mississippi and southwestern Alabama. The lower member is characterized by dark-gray to black thinly laminated limestone, the middle member by dense light-brown to gray dolomitic limestone, and the upper member by oolitic fossiliferous limestone and sandstone. The evaporite facies, which may represent a major evaporitic cycle, consists of a lower thin unit of dark brownish-gray to black dense limestone and dolomite, a middle thin unit of interbedded impure salt and anhydrite, and an upper thin unit of interbedded gray limestone and anhydrite. The Formation reaches a maximum thickness in excess of 1,500 feet in most of the basinward areas.

The Buckner Formation is easily recognized in westcentral Mississippi, where it consists of bedded anhydrite grading upward into anhydritic red shale in the middle and then to non-anhydritic somewhat arenaceous red shale near the top. The formation is also recognized in central and southeastern Mississippi and southwestern Alabama, where it contains interbedded sandstone. The thickness of the Buckner Formation varies considerably and has a maximum value of over 700 feet.

The Ivy Formation named here by the writer is the largely red clastic unit above the Buckner Formation and beneath the basal conglomerate of the Schuler Formation in Mississippi and Alabama. The unit is predominately red poorly sorted sandstone but locally contains white or gray sandstone and red shale. The sandstones of the Ivy Formation differ from those of the overlying Schuler Formation in that they are predominately red, non-kaolinitic, more poorly sorted, and generally non-conglomeratic. The thickness ranges from zero along its updip edge to at least 1,578 feet in central Yazoo County, Mississippi.

The Schuler Formation, the most widespread of the Upper Jurassic formations, consists of two members, the Shongaloo below and the Dorcheat above, which are recognizable throughout Mississippi and southwestern Alabama. The Shongaloo is characterized by red shale and red or white "kaolinitic" micaceous sandstone in west-central and central Mississippi and by conglomeratic sandstone and conglomerate in southeastern Mississippi and southwestern Alabama. The Dorcheat is composed largely of red and pastel varicolored shales and white or light-gray fine-grain sandstone throughout most of the area, although it becomes somewhat conglomeratic in southeastern Mississippi and southwestern Alabama. The Schuler Formation thickens in a basinward direction to as much as 3,750 feet.

Judging from the distribution of evaporite minerals and other lithologic characters, the climate was arid to semi-arid and the relief in the surrounding areas was low during the early Upper Jurassic (Callovian?, Argovian, and Kimmeridgian Ages.) The climate became less arid during and following the uplift that occurred during late Upper Jurassic (Tithonian and Portlandian Ages.)

Structurally, the Upper Jurassic consists of an outer belt gradually thinning to the northwest, an abruptly thickened middle belt characterized by faulted anticlinal structures with salt cores, and an inner very thick belt characterized by salt domes. The outer belt extends from west-central to southeastern Mississippi and into southwestern Alabama, the middle belt lies parallel to the outer belt on the southwest side, and the inner belt, still farther south, occupies much of south-central Mississippi and the southwest corner of Alabama.

* Geologist, Fuels Branch, United States Geological Survey, Jackson, Mississippi

TREASURER'S REPORT

November 1st, 1962

On Hand October 1, 1962

Checking Account	\$ 1,151.24
Savings Account	2,358.20

INCOME AND EXPENSE STATEMENT

	<u>Income</u>	<u>Expense</u>
Publications		
Sales Tax		\$ 9.20
Jiffy Bags		13.35
Sales	\$ 250.75	
Administrative		
Executive Committee Meeting		13.39
GCAGS (Booth in Exhibit Hall)		15.00
Express Charges and Repair of Exhibit Case		9.15
Dues	60.00	
Meetings		
King Edward (Room for Dr. Brown)		9.36
Beverage		112.00
Rental for Projectors for Oct. Meeting		11.44
Newsletter		
Multilith Plate for Newsletter Heading		6.24
Printing, Addressing, and Mailing		53.82
TOTALS:	\$ 310.75	\$ 253.97

On Hand November 1, 1962

Checking Account	\$ 1,207.02
Savings Account	2,358.20

Paid Membership 1962-1963 as of November 1 -- 325

Leslie J. Franz,
Treasurer

MISSISSIPPI ROCKS AND MINERALS

The staff of the Mississippi Geological Economic and Topographical Survey has completed an introductory set of rocks and minerals of Mississippi which will be for sale approximately at cost. The collection of twenty-four specimens is prepared as educational material to acquaint students and the public with the nature of rock and mineral substances with which the state is richly endowed. As a result of the continuing and growing demand for such a collection, the Survey Board authorized the State Geologist to prepare and distribute the collection. Mississippi is one of the fastest growing States in the Nation in its mineral production and the collection illustrates the variety of materials, both produced and undeveloped.

The collection of specimens is neatly packaged in a wooden box. It is accompanied by an illustrated booklet describing these materials and the geologic processes by which some of them are formed. It is available for \$2.00 per set postpaid for delivery within the State or \$2.50 per set postpaid outside of Mississippi.

Orders, accompanied by remittance, should be addressed to: Mississippi Geological Survey, Box 4915, Jackson 6, Mississippi, or to Mississippi Geological Survey, Box 337, University, Mississippi.

BASEMENT SAMPLES NEEDED

The following letter from the Director, Crustal Studies Laboratory, Balcones Research Center, University of Texas has been referred to the News Bulletin by MGS President Bob Ross:

November 2, 1962

Dear Geology Ex:

Peter T. Flawn's AAPG Basement Rocks Committee compiled a list of all wells penetrating to the "basement" in North America and a structural contour map on the buried basement surface. With the AAPG Committee as an advisory panel, we have taken on the job of constructing a geologic map of the buried basement with financial aid from a grant from the Advanced Research Projects Agency's VELA-UNIFORM program. The U. S. Geological Survey is compiling a map of the exposed basement rocks.

WE NEED HELP! We are trying to obtain cuttings or core material from every well that penetrates the basement in order to prepare thin sections and, if sufficient material is available, to get radioactive age dates. So far, we have cooperative programs going with the state surveys of New Mexico, Texas, Oklahoma, Kansas, Nebraska, and South Dakota. In addition, we have made arrangements with the American Stratigraphic Company for samples from their extensive files in the Rocky Mountain states. Our main shortage is core material. Cuttings and cores from older wells or those completed within the current year are also scarce. Perhaps you have a paper weight made from a basement core! One paper weight would furnish sufficient material for a good radioactive age date! If you have sample material from any basement tests, please send them on to us. Fifteen to twenty cuttings are enough to make a thin section.

About all I can offer in return is our thanks, an acknowledgment line in the ultimate publications to come from this work, and, if you so desire, a petrographic description of your sample.

Sincerely yours,

William R. Muehlberger
Director

TYPE LOCALITY COMMITTEE REPORT

A Type Localities Project is being sponsored by the Gulf Coast Section of the SEPM. Recognizing the professional value of such a project the MGS has agreed to help, and has appointed a Type Locality Committee to encourage and guide those who are willing to contribute to this worthwhile endeavor.

Publication of data on the type localities of all Mesozoic and Cenozoic stratigraphic units (surface and subsurface) in the Gulf Coast is the ultimate objective of the project. The publication is being prepared in loose-leaf form for flexibility in indexing and insertion of additional material.

The purpose of the Type Localities Project is threefold: (1) To relate type localities of the Gulf Coast to present road nets; (2) To supplement original descriptions when necessary; and (3) To designate reference (alternate) localities when the original type is inadequate or lost to posterity.

(Continued on Page 6)

IMPORTANT

The questionnaire below, regarding the extensive educational program proposed by the Advisory Committee in the October Bulletin, and referred to in this issue's LETTER FROM THE PRESIDENT, is repeated here for the benefit of all MGS members. It may be sent to Mr. Bill Skees, Pan American Petroleum Corp., Jackson, Mississippi.

Cut Here

- | | <u>Yes</u> | <u>No</u> | |
|----|--------------------------|--------------------------|--|
| 1. | <input type="checkbox"/> | <input type="checkbox"/> | I am interested in the program. |
| 2. | <input type="checkbox"/> | <input type="checkbox"/> | Should this program become a reality, I would be willing to pay a registration fee of from \$25.00 to \$50.00 (probably about the equivalent cost of a three hour college extension course.) |
| 3. | <input type="checkbox"/> | <input type="checkbox"/> | I would be interested in the program even though it might spread out over one or two years. |
| 4. | <input type="checkbox"/> | <input type="checkbox"/> | I would prefer this as the only official society program for a year. |

Please attach any comments you may have.

Mississippi Type Localities

<u>MEMBER/</u>	<u>FORMATION/</u>	<u>GROUP NAME</u>	<u>LOCATION</u>
	Pascagoula		Pascagoula River, Jackson Co., Miss.
	Hattiesburg		Hattiesburg, Forrest Co., Miss.
	Chickasawhay		Chickasawhay River, Wayne Co., Miss.
	Grand Gulf		Grand Gulf, Claiborne Co., Miss.
	Bucatanna		Bucatanna, Wayne Co., Miss.
	Vicksburg		Vicksburg, Miss.
	Byram*		Byram, Hinds Co., Miss.
	Mint Springs*		Between Vicksburg & Pearl River, Miss.
	Forest Hill		Forest Hill, Miss.
	Red Bluff*		Red Bluff, Miss.
	Jackson		Jackson, Miss.
	Shubuta		Shubuta, Miss.
	Pachuta		Pachuta, Miss.
	North Creek		
	Yazoo		Yazoo City, Miss.
	Moodys Branch*		Jackson, Miss.
	Grenada		Grenada, Miss.
	Holly Springs		Holly Springs, Miss.
	Ackerman		Ackerman, Miss.
	Owl Creek		Owl Creek, 3 mi. NE of Ripley, Miss.
	Ripley		Ripley, Miss.
	Kosciusko		
	Decatur		
	Enterprise		
	Wautubbee		Wautubbee Station, Clark Co., Miss.
	Zilpha		Attala Co., Miss.
	Winona		Winona, Miss.

Alabama Type Localities

Glendon*	Glendon, Clarke Co., Ala.
Claiborne	Claiborne Bluff, Ala. River, Monroe Co., Ala.
Gosport	Gosport, on Ala. River, Clark Co., Ala.
Lisbon	Lisbon Bluff, Ala. River, Clark Co., Ala.
Wilcox	Wilcox Co., Ala.
Tallahatta	Tallahatta Hills, Choctaw Co., Ala.
Naheola	Naheola, on Tombigbee R., Choctaw Co., Ala.
Hatchetigbee	Hatchetigbee Bluff, Washington Co., Ala.
Bashi	Bashi Creek, Clarke Co., Ala.
Tusahoma	Tusahoma, on Tombigbee R., Marengo Co., Ala.
Nanafalia	Nanafalia Ldg., Tombigbee R., Marengo Co., Ala.
Salt Mountain	Salt Mountain, Clarke Co., Ala.

Note: Work has been assigned or completed on the formations marked with an asterisk. Volunteers are needed for those not marked.

JACKSON FORMATION EVALUATION SOCIETY

The Jackson Formation Evaluation Society will hold a dinner meeting, Wednesday, December 12th at 5:30 P.M. in the Patio Room of the No. 3 Primos Restaurant. Mr. C. C. Bush of Schlumberger will speak on "Modern Log Analysis."

The Society was organized one year ago to exchange and advance knowledge concerning formation evaluation by all methods; wireline logging, mud logging, core analysis, machine programming, etc. Present officers are D. M. Pert, Sinclair, President; R. M. Campbell, Calco, Vice-President; and W. H. Wise, Humble, Secretary-Treasurer. Any of the above may be contacted for further information concerning the Society.

-6-

Mississippi Geological Society News Bulletin
P. O. Box 685
Jackson, Mississippi

Mr. Marvin L. Oxley
Lone Star Oil Co.
380 Petroleum Bldg.
Jackson, Miss.

NEWS

BULLETIN

mississippi geological society



VOLUME X
Number 4

JANUARY, 1963

M G S E X E C U T I V E C O M M I T T E E

President	R. B. Ross	Independent Geologist
Vice President	W. F. Browning	Shell Oil Company
Secretary	M. L. Oxley	Lone Star Prod. Co.
Treasurer	L. C. Franz	Gulf Oil Corp.
Past President	X. M. Frascogna	Independent Geologist
Program Chairman	E. B. Launius	Independent Geologist

1 9 6 2 - 6 3 C O M M I T T E E C H A I R M E N

Program	Ed Launius	Independent Geologist
Entertainment	Don Hugus	Sun Oil Company
Publications	L. B. Culligan	The California Co.
Nomenclature	Charles Bilberry	Gulf Oil Corp.
Publicity	Harry Webb	Shell Oil Company
News Bulletin	Mark Dyott	Mobil Oil Company
Projection	Jon Swett	Skelly Oil Company
Cores and Samples	Bill Moore	Miss. Geol. Survey
Boy Scout	Harold Karges	Consulting Geologist
Red Book Supplement	M. M. Phillips	Trahan Drilling Co.
	Ed. Blanton	Sun Oil Company
Permanent Exhibits	Baxter Smith	Sun Oil Company
Library	L. J. Ringenberg	Consulting Geologist
Insurance	E. G. Jeffreys	Consulting Geologist
Advisory	Bill Skees	Pan American Pet. Corp.
Projects	Flemming Browning	Shell Oil Company
Type Localities	George White	Sinclair Oil & Gas Co.
AAPG District Representative		
Term Expires 1964	Rudy Ewing	Dixie Geological Service
Term Expires 1963	L. B. Culligan	The California Co.
Term Expires 1963	Dudley Hughes	Triad Oil & Gas Co.

JANUARY MONTHLY MEETING

Joint Meeting: MGS & Jackson Geophysical Society

Presenting

CASE HISTORY OF TINSLEY FIELD

by

Mr. Jackson Young
Manager Geophysical Department
Union Oil Co., Shreveport, La.

ON: Monday, January 21, 1963
AT: Arlington Room, Robert E. Lee Hotel
TIME: Social 5:30 PM - Supper 6:30 PM

For Reservations notify Don Hugus, FL 3-4729
or P. O. Box 850 by 10 a.m., Monday, Jan. 21st.



LETTER FROM THE PRESIDENT

Gentlemen:

Sufficient favorable response has now been obtained concerning our proposed re-education program to begin same on a trial basis. Preparations are being made to present that portion of the proposed program dealing with clastics. Mr. Bill Skees, Chairman of Advisory, is contacting qualified personnel to present this program. When arrangements are complete, details will be announced in the Bulletin.

The Mississippi Geological Society will meet in Hattiesburg, Mississippi on Thursday, January 17, in what will be our first Society sponsored out-of-Jackson meeting. Allen Jackson and Doug Bostwick, of Humble, are primarily responsible for making this meeting possible. Please make reservations with Don Hugus, in Jackson, or Allen Jackson, in Hattiesburg.

We regret that there was some confusion regarding our program for this month. In the future, misunderstanding as to date, time, and location of coming meetings can be removed at the time you make your reservations with Don Hugus, Sun Oil Company, Entertainment Chairman.

Dave Davis, Continental, has accepted the editor's job of our Red Book Supplement; and, with the able assistance of Ed Blanton and his Field Committees, we hope to have this much-needed reference book ready by mid-summer. Mort Phillips, who has done much of the preliminary work on this project, was forced to withdraw because of the press of business.

We approach the new year with optimism, and hope that 1963 will bring each of you those things which you merit, and that you will continue to give us, your Executive Committee, the type cooperation which you have in the past.

Sincerely,

R. H. (Bob) Ross

MINUTES OF THE MISSISSIPPI GEOLOGICAL SOCIETY

December 3, 1962

The Mississippi Geological Society held its regular monthly meeting on Monday evening, December 3, 1962. The meeting was held at the Sun-n-Sand Motel following a social hour. Seventy-four members were present when Mr. Ross called the meeting to order at 7:20 PM.

Mr. Harry Webb announced that following this meeting, all notices would be found in the News Bulletin. Mr. Ross once again requested Society response to the questionnaire concerning the proposed lecture program.

Mr. Ross then introduced Mr. Jim Bollman who in turn introduced Dr. Kendall A. Dickinson. Dr. Dickinson presented his paper, which was taken from his doctorate "The Upper Jurassic Stratigraphy of Mississippi and Southwestern Alabama."

A period of discussion followed his talk, with most of the questions concerning individual wells.

Mr. Ross adjourned the meeting at 8:30 PM.

Marvin L. Oxley
Secretary

JACKSON GEOPHYSICAL SOCIETY

Jim Watson of Humble has been transferred to New Orleans. He is currently President of the Jackson Geophysical Society. Mr. D. E. Herlihy will assume the duties of President of the Society.

MISSISSIPPI GEOLOGICAL SOCIETY HATTIESBURG MEETING

Mr. Sankey L. Blanton, Sun Oil Company
"The Origin of Offshore Bars"

This Thursday evening, January 17th, at the WAGON WHEEL RESTAURANT on Hwy. 49.
Social Hour 5:30 - Dinner 6:15

PLEASE CALL ALLEN JACKSON, HUMBLE OIL, FOR RESERVATIONS,
OR IN JACKSON CALL DON HUGUS, SUN OIL CO.

MISSISSIPPI GEOLOGICAL SOCIETY FEBRUARY MEETING

Mr. Ronald C. Ohnoutka, Pan American Petroleum Corp.,

"Recent and Ancient Beach and Bar Deposits - Gulf Coast from Dauphin Island, Ala.,
to Brownsville, Texas"

Monday evening, February 4th at the Science Hall Auditorium, Millsaps College

Time.....7:30 PM

No Dinner No Reservation Necessary

MISSISSIPPI ACADEMY OF SCIENCES

The Geology and Civil Engineering Section of the Mississippi Academy of Sciences will hold its annual meeting on the University of Mississippi Campus at Oxford, Miss. on April 26, 1963. Presentation of papers to this section will begin at 2:00 P.M. in a place to be announced later. Those who wish to present a paper on some aspect of their research in geology should submit a title and abstract of less than 350 words before March 15 to Ernest E. Russell, Department of Geology, Mississippi State University, State College, Mississippi. Abstracts will be published in the Journal of the Mississippi Academy of Science.

DONATIONS TO MISSISSIPPI GEOLOGICAL SURVEY

The following is taken from an article appearing in the Jackson Daily News of December 11, 1962.

"Pan American Petroleum Corp. has donated 34 electrical logs on core holes in Jasper County oil wells to the Mississippi Geological Economic and Topographical Survey.

"Survey officials said the logs will be added to a report being assembled by the state organization of Mississippi mineral resources,

"Pan American earlier had contributed 76 logs taken in Attala County. Geological Survey officials said other logs have been contributed by British American Oil Producing Co., Superior Oil Co., Southern Natural Gas Co., and Geological Survey board chairman, Henry N. Toler.

"In addition, board members said Gulf Oil contributed an expensive electric drying oven and sample washing equipment, Marathon Oil Co., contributed a diamond saw, lap wheel, and other accessories.

"Samples and cores were also donated by Amerada, Atlantic, Gulf, Phillips, and Trowbridge Sample Service. Electrical logs and books came from Union Producing Co., Dr. R. R. Priddy, J. F. Fritz, and the State Department of Archives and History."

SITTING BOULDER GATHERS MOSS

The Boulder in the front yard of the Geological Survey office at 2525 N. West Street weights exactly 900 pounds. It is by far the largest of numerous large quartzitic and quartz boulders found at the lower part of the Wilcox in northeastern Mississippi. This particular boulder is composed of quartz conglomerate of a type similar to that found in the lower Pennsylvanian in north Alabama. It was found in 1938 in Winston County at a spot approximately 100 miles from its closest conceivable source. Although it was found on the surface and not in situ, it was associated with the thick, gritty, basal sand of the Ackerman formation. At one stage in her history the Choctaw Indians presumably used the upper surface as a mortar for grinding meal. Survey Director Fred Mellen thinks that she should have a name. Can you help select one?

TREASURER'S REPORT

December 1, 1962

On Hand Nov. 1, 1962

Checking Account	\$ 1,208.81
Savings Account	2,358.20

INCOME AND EXPENSE STATEMENT

	<u>Income</u>	<u>Expense</u>
Publications		
Sales	\$ 205.70	
Mailing		\$ 25.00
Shipping Publications to New Orleans		6.45
Labels (500)		11.00
Administrative		
Dues	12.00	
Flowers		5.20
Service Charge		.44
Meetings		
Profit	20.32	
Projector Rental		7.80
Slides (W. H. Moore)		14.56
Newsletter		
Printing, Addressing, and Mailing		64.79
TOTALS	\$ 238.02	\$ 135.24

On Hand Dec. 1, 1962

Checking Account	\$ 1,311.83
Savings Account	2,358.20

January 1, 1963

On Hand Dec. 1, 1962.....see above figures

INCOME AND EXPENSE STATEMENT

	<u>Income</u>	<u>Expense</u>
Publications		
Sales	\$ 207.75	
AGI Directory of Geol Depts. in U. S. Colleges		\$ 4.40
Advertising % of sales to AAPG		27.55
Correlation Charts		14.56
Administrative		
Dues	81.00	
Shipment of Exhibit to N. O. and return to Jackson for GCAGS		18.50
Committee Meeting		14.88
Newsletter		
Printing, Addressing and Mailing		66.36
Meeting		
Net after payment of meals, etc.	41.16	
TOTALS	\$ 329.91	\$ 146.25

On Hand Jan. 1, 1963

Checking Account	\$ 1,495.49
Savings Account	2,358.20

Paid membership 1962-1963 as of Jan. 1, 1963.....357

Leslie J. Franz
Treasurer

PEACE CORPS GEOLOGY PROJECT

The following letter was received recently by Secretary Marvin Oxley:

Mr. M. L. Oxley, Secretary
Mississippi Geological Society
P. O. Box 422
Jackson 5, Mississippi

Dear Mr. Oxley:

The American Association of Petroleum Geologists has suggested that members of your geological society may be interested in the forthcoming Peace Corps geology project in Ghana. This project calls for 20 geologists to help expand a mineral surveying program for the development of natural resources and heavy construction. Mining geologists, field geologists, geophysicists, and geochemists will work in underground researches, improvement of present mining operations, detailed chemical studies of promising mineral areas, and general geological mapping and evaluation of promising mineral sites. In a country where geological surveys are in their embryonic stages, this project presents a unique opportunity for a man to expand his technical knowledge and gain broad professional experience.

To fill this project, we are seeking the most highly qualified men in terms of both training and experience. We feel that members of your geological society have both the training and experience which would greatly enhance the effectiveness of this program. As volunteers in Ghana, their contributions will have an immediate and discernible impact on Ghana's future economic development. In addition, their two years of service will be of great professional value to them and to the American geological community when they return to the United States.

I am enclosing some background information on the Peace Corps and on this geology project in particular. Perhaps you can help us locate qualified geologists to participate in this program. Training begins in mid-February, and any effort on your part to make known these opportunities to your colleagues will be appreciated.

I look forward to hearing from you.

Sincerely,

Jules Pagano
Director, Professional
and Technical Division
Office of Public Affairs

Enclosed with the above letter was a general description of the work to be undertaken, and requirements for volunteers. The following summarizes this enclosure:

Applications for Geology positions are being accepted now, with training slated for late February. Volunteers are scheduled to start work in Ghana by next May.

The mining geologists will be employed in improving present operations, directed toward increasing productivity and developing new sources of high yield ores. General geologists will be needed for mapping and evaluation of promising mineral sites. They will also be involved in core drilling, preparation of core samples, and supply of samples to geochemists. The geochemists will conduct detailed chemical analysis of mineral areas and provide direction of field operations. The geophysicists will study underground water, delineate ore strata, and investigate foundations for proposed heavy construction.

The volunteers, who serve two year terms, are provided with housing, food, clothing and travel expenses, as well as \$75 each month which is accrued for them in the states. This amounts to a \$1,800 separation allowance.

Married couples are eligible, if both persons can do peace corps jobs. The minimum age is 18; there is no upper age. The volunteer must have a minimum background of a college degree in geology, and be an American citizen.

For further information concerning the above project write Jules Pagano, Director, Professional and Technical Division, Peace Corps, Washington 25, D. C.

GCAGS AWARDS

Best Paper awards were given to the following papers presented at the 12th annual meeting of the GCAGS in New Orleans last fall:

General Geology Catagory

1st Place - "Subsurface Lower Cretaceous Stratigraphy, Central Texas" by Delos R. Tucker, Glendale City College, Glendale, California.

2nd Place - "Improved Interpretation of Formation Productivity by Combined Use of Core Analysis and Electric Log Data" by Raymond J. Granberry, Core Laboratories, and Richard C. Wilshusen, also of Core Laboratories, Inc.

Regional Study Groups

1st Place - "The Camerina and Cibicides hazzardi Stratigraphic Intervals of Southwest Louisiana" by Lafayette Geological Society Study Group, Frank W. Harrison, Jr., Chairman.

Paleontological Catagory

1st Place - "Biostratigraphy of South Central Lafourche Parish, Louisiana" by Gerald W. Glasser, University of Oklahoma
(tie) "Application of Marine Ecology in the Gulf Coast Tertiary" by William R. Walton, Pan American Petroleum Corp.

MISSISSIPPI GEOLOGICAL SURVEY

Mr. Fred Mellen of the Mississippi Geological Survey announces the transfer of staff geologist W. S. Parks from Oxford to Jackson. He now resides at 751 Dorgan Street.

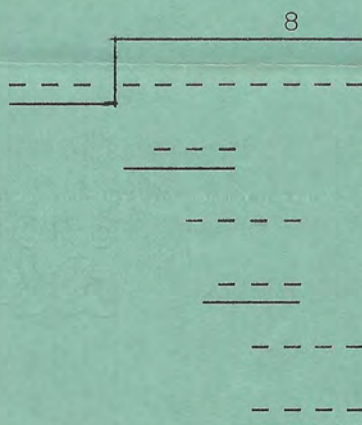
Also announced is publication of Bulletin 94, entitled "Geologic Study Along Highway 45 from Tennessee Line to Meridian, Mississippi", prepared by Donald M. Keady. This is the third of a series of highway geologic profile studies prepared in cooperation with the Mississippi Highway Department. Besides examination of countless outcrops the study was assisted by 21 borings made with power augers of the Highway Department. Formations ranging in age from Eutaw to upper Wilcox are described. A continuous geologic profile is shown in 4 plates on which are shown the related portions of the highway. Bulletin 94, 64 pages in length, may be obtained for 50 cents a copy from The Director, Mississippi Geological Survey, Box 4915, Jackson 6, Mississippi.

NEW OFFICE

Mr. and Mrs. Paul Applin, recently retired from service with the U.S.G.S. in Jackson, have opened an office in Evans Center on Terry Road. New phone number is 372-1316.

SHORT COURSE IN LOGIC

As geology is to a considerable degree a profession based on logic, the following is offered for your amusement. Fill in the spaces if you can. Flemming Browning, Shell Oil Company, has not agreed to give us the answer in the next issue of the Bulletin. Neither the numerator nor the denominator begins with a zero.



NEWS BULLETIN



mississippi geological society

VOLUME X
Number 5

MARCH, 1963

MGS EXECUTIVE COMMITTEE

President	R. B. Ross	Independent Geologist
Vice President	W. F. Browning	Shell Oil Company
Secretary	M. L. Oxley	Lone Star Prod. Co.
Treasurer	L. C. Franz	Gulf Oil Corp.
Past President	X. M. Frascogna	Independent Geologist
Program Chairman	E. B. Launius	Independent Geologist

1962-63 COMMITTEE CHAIRMEN

Program	Ed Launius	Independent Geologist
Entertainment	Don Hugus	Sun Oil Company
Publications	L. B. Culligan	The California Co.
Nomenclature	Charles Bilberry	Gulf Oil Corp.
Publicity	Harry Webb	Shell Oil Company
News Bulletin	John Drobynk	Pan American Petr. Corp.
Projection	Jon Swett	Skelly Oil Company
Cores and Samples	Bill Moore	Miss. Geol. Survey
Boy Scout	Harold Karges	Consulting Geologist
Red Book Supplement	Dave Davis	Continental Oil Co.
	Ernie Lambert	Marathon Oil Co.
Permanent Exhibits	Baxter Smith	Sun Oil Company
Library	L. J. Ringenberg	Consulting Geologist
Insurance	E. G. Jeffreys	Consulting Geologist
Advisory	Bill Skees	Pan American Petr. Corp.
Projects	Flemming Browning	Shell Oil Company
Type Localities	George White	Sinclair Oil & Gas Co.
AAPG District Representative		
Term Expires 1964	Rudy Ewing	Dixie Geological Service
Term Expires 1963	L. B. Culligan	The California Co.
Term Expires 1963	Dudley Hughes	Triad Oil & Gas Co.
Assoc. Editor, GCAGS	Bob Violette	Pan American Petr. Corp.

MARCH MONTHLY MEETING

Hear the facts about -

SUMMERLAND FIELD

by
Dudley Hughes
Triad Oil and Gas Company
(See abstract, p.3)



Outstanding Geologist
of The Month.

ON: Monday, March 4, 1963
 AT: Science Hall Auditorium
 Millsaps College
 TIME: 7:30 PM

No Dinner! - - - -

No Reservation Necessary!

LETTER FROM THE PRESIDENT

Gentlemen:

The Hattiesburg meeting held on January 17th turned out to be a rousing success. Forty-four hardy souls who braved the inclement weather were gratified by Sankey Blanton's presentation on offshore bars. Incidentally, Sankey has been invited to give this paper before the Houston Geological Society.

Our next Jackson meeting, March 4th, will feature Dudley Hughes' "Summerland Fields" paper. This meeting will be held at the Millsaps Science Auditorium at 7:30 P.M. No reservations are necessary.

The largest turnout of the year attended Ron Ohnoutka's wide-ranging paper on Recent and Ancient Bar Deposits, delivered on February 4th at Millsaps.

Ernie Lambert, of Marathon, has consented to prepare a cross section from Florida into Louisiana for the AAPG Committee, headed by Jules Braunstein. This section will be presented at the National AAPG Convention, to be held in Houston, Texas, next month. We are grateful to L. L. Ridgway, courtesy of Roy Johnson, for contributing logs and films for this project.

Don Hugus has announced plans for our annual spring dance, to be held May 10th at the Heidelberg Hotel. Awards for the Golf Tournament to be held at the Colonial Country Club on the same date, will be made at the dance. Verne Culberson and Ed Launius are making arrangements for the golf meet.

Several committee chairmen have resigned recently, due to transfers, etc. John Drobynyk, of Pan Am, has replaced Mark Dyott, of Mobil, as editor of this news bulletin. Ernie Lambert, of Marathon, has taken over Ed Blanton's duties on the Red Book Committee. We are happy over Ed's promotion to District Geologist with Sun in Shreveport, but regret the loss to MGS of such a willing and able member. Bob Violette, of Pan Am, has agreed to serve as GCAGS Associate Editor, and M. F. Kirby has accepted chairmanship of the Nominating Committee. Your cooperation with our new chairmen is earnestly solicited.

Sincerely,

R. B. (Bob) Ross

MINUTES OF THE MISSISSIPPI GEOLOGICAL SOCIETY

February 4, 1963

The Mississippi Geological Society held its regular monthly meeting on Monday, February 4, 1963. Ninety-four members were present at the meeting which was held at Millsaps College. The meeting was called to order at 7:35 p.m. by Mr. Ross. Mr. Ross made the following announcements:

- 1) A joint meeting of the Landmen's, Geophysical and Geological Societies will be held on February 11, 1963. Mrs. Ruth Sheldon Knowles, author of the book "The Greatest Gamblers" will be the speaker.
- 2) Mark Dyott, former editor of the News Bulletin, has been transferred to New Orleans, and will be replaced by John Drobynyk of Pan American.
- 3) Dave Davis and Ernest Lambert have assumed the editorship of the Red Book Supplement and will begin work immediately.
- 4) Bob Violette has been named Associate Editor of the GCAGS meeting to be held in Shreveport next year.

Mr. Ringenberg, chairman of the library committee, gave a "short" speech on the possibilities of having the State Geological Survey library building relocated in Jackson. He then read the resolution prepared by Mr. Harrell and moved that it be accepted. The resolution was passed by voice vote.

Mr. Mellen announced that Marshall Kern was the winner of the contest for best economic paper on Mississippi geology in 1962. He also announced that it was possible that a similar contest be held in 1963.

Mr. Launius introduced Ron Ohnoutka, who gave his talk on "Modern and Ancient Beach and Bar Deposits." His talk covered recent deposits from South Texas to Mobile Bay and ancient deposits in the Colorado-Utah area. Following his talk, Mr. Ross adjourned the meeting at 9:15 p.m.

Marvin L. Oxley
Secretary

RECENT AND ANCIENT BEACH AND BAR DEPOSITS

By Ronald C. Ohnoutka, Pan American Pet. Corp.

Abstract

Recent beach and bar deposits along the Gulf of Mexico from the Rio Grande River to Mobile Bay present an interesting depositional history when considering the uniformitarianism doctrine of geology that the present is the key to the past.

The physical and chemical processes responsible for sedimentation vary very little, but unlike the processes themselves, the conditions prevailing upon the earth's surface are variable. An excellent example is the fact that the Rio Grande River Delta is no longer building its delta seaward because of present day arid climatic conditions. Very little sediment is being supplied to the basin of deposition. On the other hand, the opposite is true in the Mississippi River Delta area. A humid climate is effectively supplying sediment to the river and the river to the basin of deposition.

Balanced against the sediment supply that rivers bring to the basin of deposition is the amount of energy (waves, longshore currents, and tidal currents) available to do work in sorting and transporting it. Furthermore, the balance between supply of sediment and energy supply is easily upset by relatively minor changes in one or the other. Changes in balance result in situations which are of sedimentologic and stratigraphic interest in terms of transgression and regression.

Utilizing the Gulf Coast as a model, it can be noted that it is possible for transgression and regression to occur simultaneously in nearby areas. Since the two do occur simultaneously it is clear that transgression cannot be related simply to rise in sea level, nor regression to fall. Other processes must be involved.

Considering these important environmental factors, a comparison, though not direct, can be made to regressive and transgressive beach and bar deposits in the Book Cliffs Mesaverde sequence of rocks in central Utah and southwestern Colorado.

DISCOVERY AND DEVELOPMENT OF THE SUMMERLAND FIELD
COVINGTON AND JONES COUNTIES, MISSISSIPPI

by

Dudley J. Hughes, Triad Oil and Gas Company

Abstract

Summerland is a rapidly developing oil field in the Lower Cretaceous trend of east central Mississippi. The principal production is from the Washita-Fredericksburg and Paluxy sands of the Lower Cretaceous. Sands with shows have also been encountered in the Upper and Lower Tuscaloosa of the Upper Cretaceous. Present producing reservoirs are Upper Washita-Fredericksburg, Lower Washita-Fredericksburg, Lower Paluxy, and Mooringsport. No productive sands have been encountered below the Ferry Lake Anhydrite.

The discovery well for the Summerland Field is the Triad Oil and Gas Company #1 E. S. Gambrell, which was completed in August of 1961. As of February 1, 1963, fifteen producing wells had been drilled in the field, eight of which were duals, with no dry holes. As of December 31, 1962, the field was producing approximately 3800 barrels of oil per day with a cumulative production of 717,623 barrels. Reservoir conditions have proven to be very favorable and good sand thicknesses indicate sizable reserves.

The Summerland structure has the appearance of a deep-seated salt dome with typical graben faulting in the sediments over its crest. The discovery well was located on the basis of sursurface interpretation from control furnished by four previous dry holes drilled on the structure. All presently developed reservoirs are the result of structural closure within the major (primary) graben. The structure is particularly significant in that the larger primary fault (flank fault) is located on the updip or northeast side of the graben, whereas the smaller primary fault (axial fault) is located on the downdip or southwest side of the graben. Some 900 feet of reverse dip to the northeast at the Ferry Lake Anhydrite horizon provides considerable closure and probably accounts for the thick oil accumulations in the sands. The structure appears to have grown continually during deposition, resulting in greater relief on progressively deeper horizons.

A certain amount of regional speculation was involved in the original interpretation of the Summerland structure. The structure was associated with a long gravity ridge extending from the Magee Field to the Gitano Field. Subsurface control prior to the discovery of Summerland indicated the probability of a continuous graben system running between the Magee structure and Gitano structure. Regional grabens of this nature existed in other portions of east central Mississippi, apparently solely the results of a series of individual deep-seated salt domes which may have originated from a common salt ridge. These deep-seated domes occur with certain frequency to perpetuate the graben. Comparing the Magee-Gitano graben with other areas, it appeared that at least two deep-seated domes should lie between the Gitano structure and the Magee structure to perpetuate the graben over this 20 mile distance. The faulting associated with these deep-seated domes appears to be individual to respective structures with the primary or outside faults of the graben connecting across the synclinal areas. The throw of the primary faults assumes different proportions over each of the deep-seated domes.

It is significant that the first deep well drilled on the structure, the Pan American #1 Easterling, was reported located on a seismic interpretation and narrowly missed the field by one location. The Summerland Field is a good example of a fair size reserve which may be missed on a structure which appears to be condemned by dry holes.

NOMENCLATURE

The Nomenclature Committee recommends that the name PELAHATCHIE FIELD be given to the new producing area recently discovered by the drilling of the American Petrofina Company of Texas #1 Rhodes-Sowell Unit, Section 18, Township 5 North, Range 5 East, Rankin County, Mississippi.

Completion information filed with the Mississippi State Oil and Gas Board is as follows:

Completed November 29, 1962. Flowing 229 BOPD, no water through 10/64" choke. Gravity 44 degrees API. GOR 235. TP 600#. From perforations 9828-31 feet in the Mooringsport formation.

The Nomenclature Committee recommends that the name MIZE FIELD be given to the new producing area recently discovered by the drilling of the Triad Oil & Gas Company #1 John S. Clark, Section 9, Township 10 North, Range 15 West, Smith County, Mississippi.

Completion information filed with the Mississippi State Oil and Gas Board is as follows:

Completed December 20, 1962, flowing at the rate of 325 BOPD, no water, through 16/64" choke. Gravity 36 degrees API. GOR 485.01. TP 425#. From perforations 11,836-51 feet in the Paluxy formation.

The Nomenclature Committee recommends that the name ARNOT FIELD be given to the new producing area recently discovered by the drilling of the David Crow #2 J. W. Parker, Jr., et al, Section 5, Township 3 North, Range 5 West, Adams County, Mississippi.

Completion information filed with the Mississippi State Oil and Gas Board is as follows:

Completed December 18, 1962, flowing 110 BOPD+24 barrels water through 6/64" choke. Gravity 45 degrees API. GOR 300.1. TP 310#. CP 890#. From perforations 6840 $\frac{1}{2}$ -42 $\frac{1}{2}$ feet in the Wilcox formation.

The Nomenclature Committee recommends that the name ELLIS LAKE FIELD be given to the new producing area recently discovered by the drilling of the J. F. Francis #1 Wilbert and Son, Section 4, Township 3 North, 3 West, Wilkinson County, Mississippi.

Completion information filed with the Mississippi State Oil and Gas Board is as follows:

Completed November 25, 1962. Flowing at the rate of 288 BOPD plus 30.6 barrels water through 16/64" choke. Gravity 38 degrees API. TP 140#. CP 510#. From perforations 7238-45 feet in the Wilcox formation.

The Nomenclature Committee recommends that the name EAST KELLY HILL FIELD be given to the new producing area discovered by the drilling of the W. K. Griffin, Jr. et al, #1 Cavin, Section 10, Township 4 North, Range 1 East, Wilkinson County, Mississippi.

Completion information filed with the Mississippi State Oil and Gas Board is as follows:

Completed December 21, 1962. Pumping 94 BOPD plus 220 barrels water through 16/64" choke. Gravity 43 degrees API. CP 260#. From perforations 6675 $\frac{1}{2}$ -6677 feet in the Wilcox formation.

The Nomenclature Committee recommends that the name SOUTH CENTER RIDGE FIELD be given to the new producing area recently discovered by the drilling of the Triad Oil & Gas Co. #1 Shelton R. Stewart, Section 29, Township 1 North, Range 8 East, Smith County, Mississippi.

Completion information filed with the Mississippi State Oil and Gas Board is as follows:

Completed January 5, 1963. Flowing 163 BOPD, no water, through 12/64" choke. API gravity 33 degrees. Est. GOR 350.1. TP 650#. From perforations 12,595 to 12,603 feet and 12,651 to 12,663 feet in the Sligo formation.

NEW MEMBERS

John A. Suthoff	Shell Oil Company
Thomas W. Daniel, Jr.	Alabama Geological Survey
William S. Parks	Mississippi Geol. Survey
Jack G. Goodwin	Texaco
Rodney Waltman	Associate Member, Citronelle, Ala.

TRANSFERS

Mark Dyott, Mobil, transferred from Jackson to New Orleans.

H. J. McGunn, Mobil, Sr. Exploration Geologist, transferred from Midland to Jackson.

John Suthoff, Shell, transferred from New Orleans to Jackson.

Ed Blanton, Sun, transferred from Jackson to Shreveport as District Geologist.

Phil Eisenstatt, Shell, transferred from Jackson to New Orleans.

REPLY TO PEACE CORPS GEOLOGY PROJECT

The following letter was recently received by Secretary Marvin Oxley in reply to the letter from the Office of Public Affairs soliciting geologists for Peace Corps work in Ghana which was printed in this Bulletin last month.

Dear Mr. Oxley:

In response to the above request, I furnish the following information:

The future economic growth of Ghana, whether trusted to the manipulations of officials within this country, Russia, or Ghana, is to be accomplished by Government and subsidy, not by the concourse of competitive business between free Ghanaians and private citizens in other countries.

Ghana is to be constructed under the modern concept of communal ownership of property. The private Ghanaian will not own the land he lives on or the minerals underlying it.

Ghana's president, Kwame Nkruma, refers to himself as a non-denominational Christian and a Marxist Socialist. Toward accomplishment of the latter state, he recently took the most basic step of abolishing civil liberties for his people. Special courts, composed of three judges appointed by Nkruma, may lay down death penalties to political prisoners. There can be no appeal; there will be no jury.

Nkruma's authority extends beyond the worldly and the physical. He has been established as a god by the Ghana youth pioneers. Their new chant proclaims that "Nkruma is our redeemer, Nkruma can do no wrong, Nkruma never dies." When the Anglican Bishop of Acca objected to this paganism, he was denounced by the Ghanaian press and radio, which demanded his removal from the country. The Ghanaian press and radio are owned by the government.

Washington has announced that it will support the Ghana government with 133 million dollars in loans to help build such projects as the Volta Dam and aluminum smelters. In answer to objections that Ghana is a Communist country which denies its people civil liberties, the State Department officials say that "go-ahead was based on a judgment that American foreign policy has more to gain from United States' participation than withdrawal."

The United States officials do not define for us what "participation" with this government means. It means that we are participating with the Ghana government in the denial of property and civil liberties to its people.

The United State government has loaned 96 million dollars to the Volta Aluminum Company. The major stock in this company is owned by two American aluminum companies which have long been favorites in line for United States subsidies and hand-outs. The United States government will guarantee these companies up to 54 million dollars against loss from expropriation.

United States officials declare that this is a sound venture and that the loans will be repaid.

Our Government, through its endless subsidiaries and agencies, has been engaged in the same sort of building up of its own economy for several years. Through investments of our tax money in such areas as banking, insurance, manufacturing, subsidies, hotels, railroads, transportation and utilities, their net profit in 1959 was an unprecedented minus 39.7 billion dollars...a loss greater than the total receipts from personal income taxes (37 billion) during the same period.

We are told that the Ghana loan is sound. We notice, however, that the heavily subsidized United States aluminum industries find it necessary to borrow all of their investment funds from the United States taxpayers and even obtain guarantees from these same unwilling philanthropists against expropriation.

Government officials who have proven themselves incompetent to produce profitably in their own country, safe from expropriation, exempt from taxation, and with the stolen resources of its productive citizens at their disposal, can certainly do only worse in Ghana.

Yours very truly,

John W. McGowan

TREASURER'S REPORT

February 1, 1963

On Hand Jan. 1, 1963

Checking Account	\$ 1,495.39
Savings Account	2,358.20

INCOME AND EXPENSE STATEMENT

	<u>INCOME</u>	<u>EXPENSE</u>
Publications		
Sales	\$ 66.55	
Sales Tax		4.36
Society Card in AAPG Feb. '63 - Jan. '64		32.50
Printing Type Localities I & II		5.00
Advertising in AAPG		6.60
Mailing		4.80
Administrative		
Dues	24.00	
Flowers for Don Hugus		6.00
Stamps		3.00
Meetings		
Revenue for Beverage	186.17	
Cost of Beverage		167.00
Newsletter		
Printing & Mailing Bulletin & Membership Lists		<u>91.71</u>
TOTALS	\$ 276.72	\$ 320.97

On Hand Feb. 1, 1963

Checking Account	\$ 1,451.14
Savings Account	2,358.20

Paid Membership 1962-63 as of Feb. 1, 1963365

LESLIE J. FRANZ, TREASURER
Mississippi Geological Society

SOLUTION TO SHORT COURSE IN LOGIC

Appearing below is the solution to last month's mathematical problem which we called "short course in logic." The only answer received to date was submitted by Maynard P. Jones, of Exploration Surveys, Inc., in Dallas.

$$\begin{array}{r}
 80809 \\
 124 \overline{) 10020316} \\
 \underline{992} \\
 1003 \\
 \underline{992} \\
 1116 \\
 \underline{1116} \\
 \hline
 \end{array}$$

FURTHER TOPOGRAPHIC MAPPING PROPOSED

A telegram dated January 17, 1963, from Senator John Stennis to Fred Mellen, State Geologist, announced that the proposed federal budget which was recently submitted to Congress included an item of \$506,000 for topographic surveys and mapping in Mississippi. This sum represents the largest recommendation for topographic mapping in Mississippi ever contained in a proposed federal budget.

MISSISSIPPI GEOLOGIC HIGHWAY PROFILES AVAILABLE

A recent letter from the Mississippi Geological Survey serves as a reminder as to the availability of guides to the surface geology along several state highways. The following was taken from the letter:

"The profiles have already proved valuable guides for field trips, for advanced geology majors in Mississippi Colleges and in the colleges of adjacent states. In the oil industry they prove useful in acquainting newcomers with the updip stratigraphy of the East Gulf Coast....."

"Five bulletins of the MISSISSIPPI.....SURVEY contain profiles of highways which are worthy of intensive study..... The BULLETINS are listed below by number, abbreviated title, publication date, and price. The numbers in parenthesis are those used to designate the number of profile plates.

- Bull. 48, The Claiborne, Highway 45 (1), Highway 11 (2) Highway 15 (3), Highway 12 (4), Highway 82 (5) profile plates 1,2, 3,4,5) 1942, price \$.50.
- Bull. 89, (along) Miss. Highway 16 (two profile plates) 1959, price \$0.50.
- Bull. 91 (along) U. S. Highway 80 (four profile plates) 1961, price \$0.50.
- Bull. 94, (along) U. S. Highway 45 (four profile plates) 1962, price \$0.50
- Bull. 98 (along) Miss. Highway 25 (two profile plates) 1963, in press, price \$1.00."

Mississippi Geological Society News Bulletin
P. O. Box 689
Jackson, Mississippi



Mr. Donald C. Gifford
Marr Company
1215 Petr. Bldg.
Jackson, Mississippi

NEWS

BULLETIN

mississippi geological society



VOLUME X
Number 6

APRIL, 1963

M G S E X E C U T I V E C O M M I T T E E

President	R. B. Ross	Independent Geologist
Vice President	W. F. Browning	Shell Oil Company
Secretary	M. L. Oxley	Lone Star Prod. Co.
Treasurer	L. C. Franz	Gulf Oil Corp.
Past President	X. M. Frascogna	Independent Geologist
Program Chairman	E. B. Launius	Independent Geologist

1 9 6 2 - 6 3 C O M M I T T E E C H A I R M E N

Program	Ed Launius	Independent Geologist
Entertainment	Don Hugus	Consulting Geologist
Publications	L. B. Culligan	The California Co.
Nomenclature	Charles Bilberry	Gulf Oil Corp.
Publicity	Harry Webb	Shell Oil Company
New Bulletin	John Drobynyk	Pan American Petr. Corp.
Projection	Jon Swett	Skelly Oil Company
Cores and Samples	Bill Moore	Miss. Geol. Survey
Boy Scout	Harold Karges	Consulting Geologist
Red Book Supplement	Dave Davis	Continental Oil Co.
	Ernie Lambert	Marathon Oil Co.
Permanent Exhibits	Baxter Smith	Sun Oil Company
Library	L. J. Ringenberg	Consulting Geologist
Insurance	E. G. Jeffreys	Consulting Geologist
Advisory	Bill Skees	Pan American Petr. Corp.
Projects	Flemming Browning	Shell Oil Company
Type Localities	George White	Sinclair Oil & Gas Co.
AAPG District Representative		
Term Expires 1964	Rudy Ewing	Dixie Geological Service
Term Expires 1963	L. B. Culligan	The California Co.
Term Expires 1963	Dudley Hughes	Triad Oil & Gas Co.
Assoc. Editor, GCAGS	Bob Violette	Pan Am. Petr Corp.

A P R I L M O N T H L Y M E E T I N G

Do You Know About -

USE OF PHOTO GEOLOGY AND GEOMORPHIC CRITERIA

TO LOCATE SUBSURFACE STRUCTURES

by

Walter W. Doeringsfeld
Consulting Photo Geologist, Denver, Colo.

ON: Monday, April 8
AT: King Edward Hotel, Crown Room
TIME: Social 5:15 P.M.-Buffet Supper 6:30 P.M.



For Reservations, notify Don Hugus 355-5031 or Room 770 Petroleum Bldg. by 10 AM, Apr. 8

PRESIDENT'S EDITORIAL

Expansion of Federal Government into business fields formerly administered by privately owned corporations and individuals appears to be mushrooming.

In addition to troops and marshals, the United States Employment Service is now invading our college campuses in order to be sure that graduates are placed in the job for which they are best suited. Personnel interviews by corporations and individuals can eventually be discontinued, thereby saving company executives the agony of making one more decision. Expense account living, insofar as this field is concerned, will be eliminated, and more tax revenue can flow into Washington to help underprivileged countries gain an economic equality with, or advantage over us. Of course, there will be a nominal increase in Government expenditure in this field to provide these much-needed services; but it shouldn't cost the Government over three times as much to operate this business as it would cost private institutions - not at the outset, at least.

We also have a great need for untrained, inexperienced, and immature geologists to develop the resources of our wavering, tottering foreign aid friends under the guidance of the New Frontier version of the old CCC. This is not the ultimate in communal life, because a large cash stipend accrues to the worker. It is an approach, though, to the glorious plateau now occupied by the Russians and Chinese.

One of the drawbacks to this trend of Government encroachment into private affairs is that it doesn't encourage development of leadership. We are becoming a nation of followers. Many of our corporate executives have been cowed by "big government," and appear to be satisfied with the role of whip-cracker in order to avoid Washington's wrath or to maintain the status quo.

This should be alarming to those of you who aspire to better yourselves, your family, and your position. In fact, if you are not already alarmed, you may want to continue to avoid any stand, and drift with the rest of the apathetic majority into the camp of the "One World People."

If you feel, however, that something should be done about Government usurpation of individual and corporate functions, you should let your views be known to your Congressman and to any other Congressman known to you. This unwarranted invasion can be stopped by Congress, if this body will eliminate authority and funds for operations. If Congress refuses to act, then it can be reformed at the polls.

R. B. (Bob) Ross

MINUTES OF THE MISSISSIPPI GEOLOGICAL SOCIETY

March 4, 1963

The Mississippi Geological Society held its regular monthly meeting on Monday, March 4, 1963, at the Science Hall, Millsaps College. 114 members and guests were present when Mr. Ross called the meeting to order at 7:40 p.m.

Mr. Ross made the following announcements:

- 1) Mr. Jim Bollman and Mr. Dave Davis are the new AAPG representatives.
- 2) The University of Southern Mississippi has set up the Olin T. Brown Memorial award for an outstanding geological student in the State of Mississippi. The Society will administer this award and if possible help to perpetuate it.
- 3) Mr. Kendall Dickenson has offered to let the Society publish his thesis on the Smackover Formation. The Society has accepted.
- 4) Mr. Sankey Blanton of Sun Oil Company has been named Chairman of a Constitutional Study Committee. Mr. Blanton will have a report at the next meeting.

Mr. Ed Launius, Program Chairman, introduced Mr. Dudley Hughes of Triad Oil and Gas Company, who spoke on "The Discovery and Development of Summerland Field."

Mr. Hughes outlined the exploration history prior to their drilling of the discovery well, the subsequent development of the field, and in summary gave some of his ideas on the general structural development of faulting, salt ridges, and graben trends in the Mississippi Salt Basin.

Mr. Herlihy announced that the next meeting of the Jackson Geophysical Society will be held March 21, 1963. Dr. Crawford with Continental Oil Company will give a talk on "History of the Vibroses."

Mr. Ross adjourned the meeting at 8:27 p.m.

Marvin L. Oxley
Secretary

LAUREL MEETING

Our Laurel meeting was a whopping success. Sixty-five members and guests attended and enjoyed Dudley Hughes' paper on Summerland Field. This was a larger crowd than attends most of our Jackson meetings. We are deeply appreciative of the efforts of Lowell Ellis, Gulf Oil, which helped make this event possible.

ELECTIONS

Nominations for next year's officers will be presented at our next meeting, slated for April 8, in Jackson. Any additional nominations from the floor should be made at this meeting. If you have a champion, be there and enter him.

STATEMENT OF POLICY

Our Nomenclature Committee has done an outstanding job this year. Not all of the Committee's recommendations have been followed, but all of their recommendations have been sound. No recommendations have been or will be made (regarding any pool, discovery, re-discovery, or extension of any existing field) based on any political pressure or the desire of an operator to impress his stockholders. This Committee shall continue to perform its function efficiently, in the hope that it may perform a service to the State of Mississippi by opposing all attempts to confuse the public and the literature.

JACKSON GEOPHYSICAL SOCIETY

The next meeting of the Jackson Geophysical Society will feature Mr. Ed Haye, president of Photogravity Company, Houston, who will speak on "Photogeology and Gravity." Mr. Haye will also present this paper at the AAPG Convention in Houston. Mr. Haye's Jackson appearance will be on Monday night, April 15, in the Arlington Room of the Robert E. Lee Hotel. The meeting will include a Social Hour at 5:30, Dinner at 6:30, and the talk by Mr. Haye at 7:15. For reservations contact Bob Jones with Texaco.

OUACHITA MOUNTAIN FIELD TRIP

The Fort Smith Geological Society, Fort Smith, Arkansas, will conduct a two day field trip in the Ouachita Mountains May 3 and 4. The trip will begin at Little Rock and cover parts of Faulkner, Conway, Perry, and Pulaski Counties the first day. The second day will begin at Hot Springs and cover parts of Garland, Montgomery and Scott Counties, terminating near Waldron, Arkansas. All travel will be in car caravan. For further information, contact the Secretary of the Fort Smith Geological Society, William E. Diggs, 3510 South Boston, Fort Smith, Arkansas.

USE OF PHOTO GEOLOGY AND GEOMORPHIC CRITERIA
TO LOCATE SUBSURFACE STRUCTURES

By

Walter W. Doeringsfeld, Jr.
Doeringsfeld, Amuedo, and Ivey, Consulting Photogeologists, Denver

ABSTRACT

Photogeology is literally the interpretation of aerial photography for geological purposes. In the strictist sense, photogeology includes geomorphology. Most domestic photogeology, until the mid-1950's, was done in the Rocky Mountain area where bedrock exposures were relatively easily mapped, structurally and stratigraphically. By the mid-1950's oil companies began to search for surface data which might give clues to subsurface structural features not directly expressed at the surface. The hope was to acquire more economical surface data on which to base future geophysical work, and with which to re-evaluate existing records. The two activities have been combined with good results.

In the Gulf Coast and Mississippi Embayment country from Southwest Texas to Florida, geomorphology should be the primary tool of surface mapping for oil and gas exploration. Geomorphology, as applied in the oil industry, is a science, and should not carry the old connotation and stigma of "creekology." The logical application of geomorphic principles is proving to be a valuable exploration tool.

Basic concepts which are well documented in the published literature are necessary to the comprehensive application of geomorphology are discussed.

Geomorphic analysis is concerned primarily with the determining of the degree of influence which the structure and lithology of the surface rocks have had on the morphological development of the area. The four basic categories of this approach, generally in order of their importance, are:

1. Drainage analysis
2. Land form analysis
3. Fracture pattern analysis, and
4. Tonal characteristic analysis

Although more stress may be placed on one of the above categories in a given area, a comprehensive analysis includes consideration of all of them. Drainage analysis is usually the most important, and drainage terminology carries a structural connotation. The terms consequent, resequent, subsequent, and obsequent can be used in the structural sense. All these streams can be related to the original consequent surface, which is the initial slope of the land surface upon regression of the sea. All streams are lazy and take the direction of least resistance; thus, all streams controlled by faulting are linear in nature. The greatest deterrent to the structural analysis of drainage is the homogeneity of surface rocks.

Photogeology and geomorphology are not the panacea for all exploration activity. They are tools which will be of value to each geologist only if he coordinates his interpretations of subsurface and geophysical data with them.

CONCLUSIONS REGARDING CONSTITUTIONAL CHANGES

The following statement represents the opinion of an informal committee which has been considering certain changes in the Society's Constitution:

"Other geological societies are considering revisions in their constitutions which are designed to strengthen their professional image. This is being tried in three ways: First, they are upgrading membership requirement; second, they require a signed statement of intended deportment; third, they are lobbying to require the presence of a qualified geologist to legalize things "geologically." (Example: A well completion report would require that thus and such a geologist witness all logging runs - this would, of course, establish professional responsibility for the angular attitude of the hole, etc.)

"Frankly, I think the idea is good, but I feel as a geologist who works for a

major oil company that the company's wishes supersede any other agreement. Therefore, I believe that, although the society at large should be concerned with its image, status, and standing, that this is a matter for independent geologists.

We would appreciate a thought or two at our next meeting."

Sankey L. Blanton, Jr.

NEW BULLETINS FROM MISSISSIPPI GEOLOGICAL SURVEY

Mississippi Geological Survey announces publication of Bulletin 98, entitled "Geologic Study Along Highway 25 from Starkville to Carthage." by Tracy W. Lusk. Bulletin 98 is the fourth of a series of highway geologic studies prepared with the assistance of the Highway Department.

The bedrock formations range from Upper Cretaceous Prairie Bluff chalk at Starkville to upper Kosciusko sand of the Claiborne group near Carthage. Besides study of countless outcrops the work was helped by 29 borings made with power augers of the Highway Department. In addition, three deep core holes totaling 1360 feet were drilled for the purpose of showing lithologic variabilities in the Wilcox and to help in the stratigraphic correlation of these sediments. Bulletin 98 contains 48 pages, 15 photographs and figures and 3 plates, one an electric log cross section and two profile plates. The Bulletin may be obtained for \$1.00 per copy from the Director, Mississippi Geological Survey, P. O. Box 4915, Jackson 6, Mississippi.

Bulletin 97, "Mississippi Geologic Research Papers-1962," is in the hands of the printer and should be ready for release within two or three weeks.

Bulletin 95, "Jasper County Mineral Resources," and Bulletin 99, "Attala County Mineral Resources," are scheduled for completion at an early date.

New temporary office space has been provided by the Building Commission to accommodate three geologists and a draftsman. This space was constructed in the front part of the metal warehouse portion of the Sample Library.

At the regular meeting of the Board on March 6, the immediate transfer of all Survey properties from the University campus was ordered. Much of the transfer has been effected; certain items have been given to the Geology and other departments at the University. A number of van loads of books, materials, and equipment have been placed in commercial storage in Jackson until more adequate quarters are provided.

Two staff members will present papers before the Mississippi Academy of Sciences at the University on April 25-27. Mr. William S. Parks will discuss "Cave and Sink-hole Development in Attala County." Mr. William H. Moore will give a paper entitled "An unusual variety of quartz from cuttings and cores of two Attala County wells."

"Mississippi Rocks and Minerals" collection continues to be a "best seller." The Survey is in need of bulk specimen materials, particularly oil sand, anhydrite, and rock salt.

NEW TEXAS GEOLOGICAL HIGHWAY MAP

The Dallas Geological Society has announced publication of a new Geological Highway Map of Texas. The map shows, in color, outcropping rocks within the state. On the reverse side is a discussion of the geological history of Texas, a North-South and an East-West cross-section, a Tectonic Map, and a Physiographic Map. Price is \$1.00 folded or \$1.25 rolled from the Dallas Geological Society, P. O. Box 2867, Dallas 21, Texas.

NOMENCLATURE COMMITTEE

The Nomenclature Committee recommends that the name Oakland Field be given to the new producing area recently discovered by the drilling of the Germany-Gulman #1 Stowers, Section 25, Township 8 North, 2 West, Adams County, Mississippi.

Completion information filed with the Mississippi State Oil and Gas Board is as follows:

Completed March 10, 1963. Flowing at the rate of 120 BOPD plus 3 barrels water through 12/64" choke. Gravity 43 degrees API. TP 250#. CP 390#. From perforations 5519-32 feet in the Wilcox formation.

The Nomenclature Committee recommends that the name Dry Creek Field be given to the new producing area discovered by the drilling of the Larue-Smith Prod. Co. #7-12 U.S.A. Well #1, Section 7, Township 5 North, Range 2 East, Franklin County, Mississippi.

Completion information filed with the Mississippi State Oil and Gas Board is as follows:

Completed March 11, 1963. Flowing 89 BOPD, no water through 8/64" choke. TP 350#. From perforations 6536-40 feet in the Wilcox formation.

TREASURER'S REPORT
February 1 to March 1, 1963

On Hand Jan. 1, 1963

Checking Account	\$ 1,451.14
Savings Account	2,358.20

INCOME AND EXPENSE STATEMENT

	<u>INCOME</u>	<u>EXPENSE</u>
Publications		
Sales	\$ 212.96	
Administrative		
Dues	12.00	
Three year loan to Thos. F. Torries (Finish college work)		500.00
Meetings		
Rental of Projector		7.80
Beverages		169.00
TOTALS	\$ 224.96	\$ 676.80

On Hand March 1, 1963

Checking Account	\$ 999.30
Savings Account	2,358.20

Paid Membership 1962-1963 as of Mar. 1, 1963 370

LESLIE J. FRANZ, Treasurer
Mississippi Geological Society

Mississippi Geological Society News Bulletin
P. O. Box 689
Jackson, Mississippi



Mr. Donald C. Gifford
Marr Company
1215 Petr. Bldg.
Jackson, Mississippi

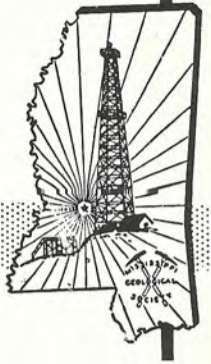
NEWS

BULLETIN

mississippi geological society

VOLUME X
Number 7

MAY, 1963



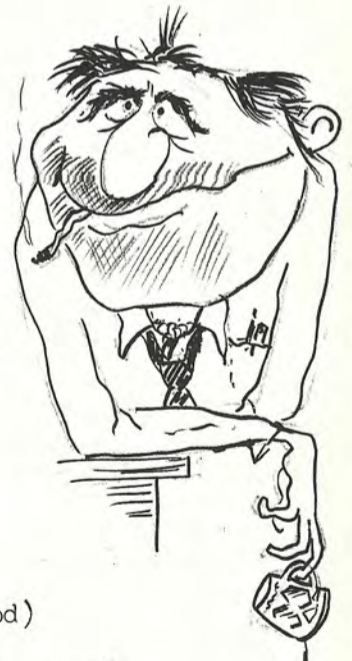
M G S E X E C U T I V E C O M M I T T E E

President	R. B. Ross	Independent Geologist
Vice President	W. F. Browning	Shell Oil Company
Secretary	M. L. Oxley	Lone Star Prod. Co.
Treasurer	L. C. Franz	Gulf Oil Corp.
Past President	X. M. Frascogna	Independent Geologist
Program Chairman	E. B. Launius	Independent Geologist

1 9 6 2 - 6 3 C O M M I T T E E C H A I R M E N

Program	Ed Launius	Independent Geologist
Entertainment	Don Hugus	Consulting Geologist
Publications	L. B. Culligan	The California Co.
Nomenclature	Charles Bilberry	Gulf Oil Corp.
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Projection	Jon Swett	Skelly Oil Company
Cores and Samples	Bill Moore	Miss. Geol. Survey
Boy Scouts	Harold Karges	Consulting Geologist
Red Book Supplement	Dave Davis	Continental Oil Co.
	Ernie Lambert	Marathon Oil Co.
Permanent Exhibits	Baxter Smith	Sun Oil Company
Library	L. J. Ringenberg	Consulting Geologist
Insurance	E. G. Jeffreys	Consulting Geologist
Advisory	Bill Skees	Pan American Petr. Corp.
Projects	Flemming Browning	Shell Oil Company
Type Localities	George White	Sinclair Oil & Gas Co.
AAPG District Representative		
Term Expires 1964 - Rudy Ewing - Dixie Geological Service		
Term Expires 1963 - L. B. Culligan - The California Co.		
Term Expires 1963 - Dudley Hughes - Triad Oil & Gas Co.		
Assoc. Editor, GCAGS - Bob Violette - Pan Am. Petr. Corp.		

Picnic Chairman



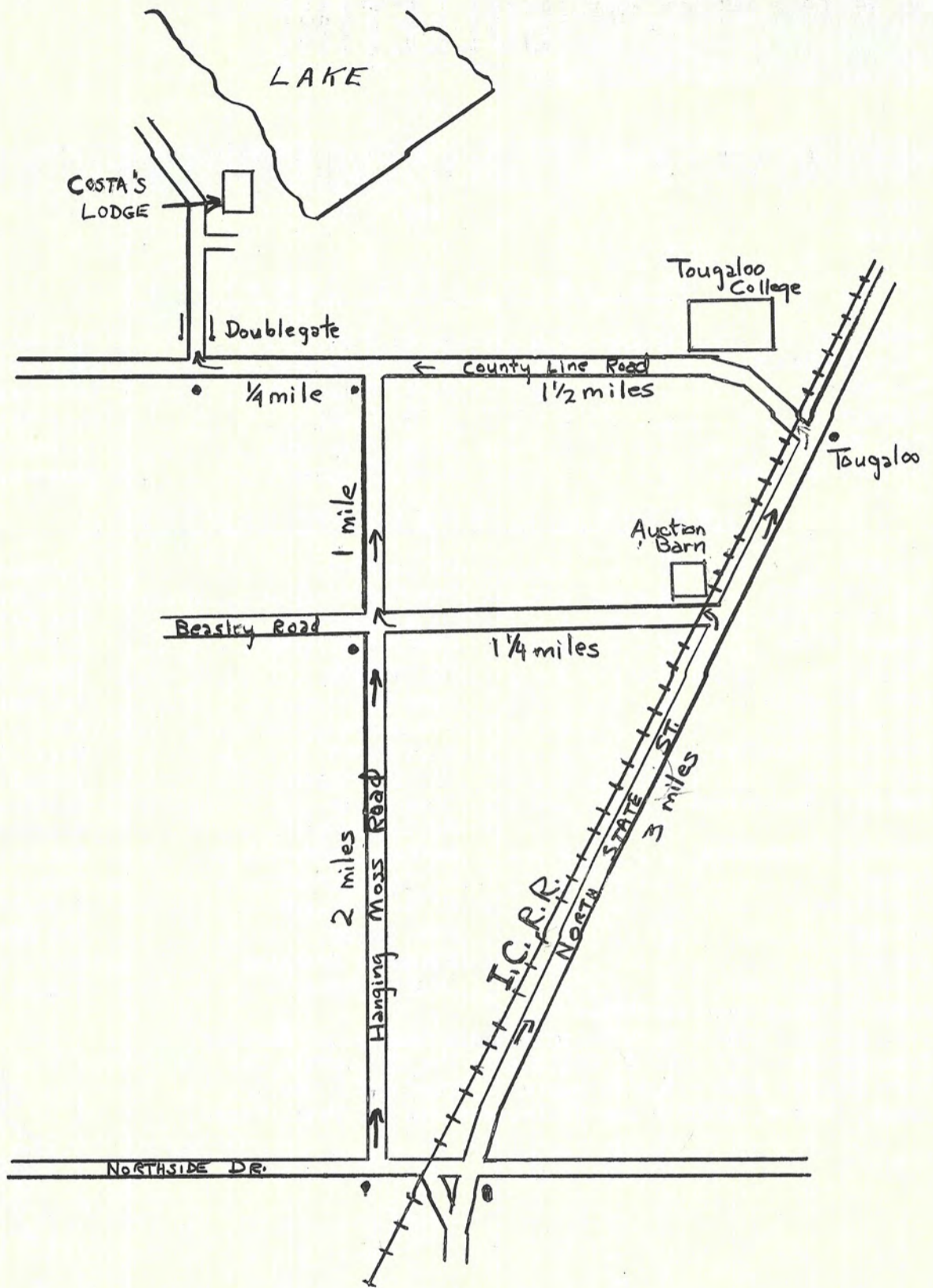
YEARLY BARBECUE and BEER BLAST

ELECTION OF OFFICERS

YOU CAN'T AFFORD TO MISS IT! FOOD CATERED BY ODIS BAR-B-Q
 MAKE YOUR RESERVATION NOW (Important: No Reservation - No Food)
 FISHING LAKE AVAILABLE (Boats at lake privately owned - not for use)

ON: Tuesday, May 28, 1963
 AT: Costas Lodge (See enclosed sketch)
 TIME: Gates opened at 4 P.M. - \$1.50 per Person

For Reservations: Notify Don Hugus - 355-5031 or Room 770 Petroleum Bldg., by 5 P.M., May 27th

MAP OF BEER BLAST PROSPECTPRESIDENT'S EDITORIAL

Our last meeting of the term 1962-63 and the election of officers of the Mississippi Geological Society will be held at Costa's Lake on Tuesday, May 28. We are most grateful to Bob Womack, Consulting Geologist, for securing this site for us. You may fish from the bank or piers, but NO BOATING will be allowed. Barbecued chicken and keg beer will be available, but you will have to vote before you can wet your whistle.

I am sure the reason we didn't have any par busters at our golf tourney, held last Friday at the Colonial Country Club, was either the high wind or the proximity of the 19th hole to the 4th and 5th tees. Buddy Cleveland took low gross score, with a 77, while Ron Ohnoutka was runner-up with 81 (which, incidentally, was the number of players). Bob Jackson walked off with low net trophy. Felix Webster successfully defended his high gross title, but has improved to the point where he will probably not be able to repeat next year. Awards were made at the spring dinner dance that night at the Heidelberg Victory Room. This annual affair was enjoyed by approximately 200 members and their wives.

The past year has been filled with high hopes, pleasure, and some disappointment for me. Probably the greatest of the latter has been our failure to get any of our special projects, begun in 1961, completed. On the plus side, though, we have initiated an educational program designed to upgrade our geologic thinking. The first, "trial balloon," stage of this endeavor is tentatively scheduled for November 15, and will deal exclusively with clastics. Our out-of-town meetings, held for the first time ever, were well received at Hattiesburg and Laurel. We have held dinner, business, and noon luncheon meetings in an effort to allow attendance by every member at least once during the year. We have had an excellent overall technical program. Our Entertainment Chairman has been kept very busy arranging for meeting sites, fare, and the spring dance.

Before yielding to my successor, I would like to give credit to those of you who have helped make our Society what it has been during the past year. Special thanks for jobs well done go to the following Society Committee Chairmen: Ed Launius, Don Hugus, Lee Culligan, Charlie Bilberry, John Drobynyk, Mark Dyott, Jon Swett, Bill Moore, Dave Davis, Ernie Lambert, Bill Skees, Mort Phillips, and Ed Blanton.

It has been a privilege and an honor to serve you as your President, and to be associated with such a cooperative group of fellow officers. I congratulate you on your slate of candidates, knowing, no matter who wins, that the leadership of the Society will be in good hands.

I thank you.

Robert B. Ross

MINUTES OF THE MISSISSIPPI GEOLOGICAL MEETING

April 8, 1963

The regular monthly meeting of the Mississippi Geological Society was held on Monday, April 8, 1963, at the King Edward Hotel. 64 members were present when the meeting was called to order at 7:15 p.m.

Mr. Ross made the following announcements:

- 1) Frank Torries of Mississippi State University acknowledged the receipt of his loan and tendered thanks to the Society.
- 2) The Louisiana Geological Survey has sent copies of four recent publications to the Society and asked that the availability of these publications be announced to the members.
- 3) Mr. Charles Sullivan, candidate for Governor, requested constructive criticism concerning the Society's relationship to the government.
- 4) Annual meeting of the G.C.A.G.S. will be held October 30 to November 1, 1963, in Shreveport, Louisiana. Mr. Ross requested anyone who wished to present a paper at this meeting to contact him.

Mr. Browning announced that Gary D. Weale was the winner of the first annual Olin T. Brown Memorial Award for the outstanding geological student in Mississippi.

Mr. Franz made the treasurer's report.

Mr. Davis made the report on the Red Book supplement. He expects to meet his May 15 deadline.

Mr. Skees made a report from the Advisory Committee concerning a proposed government program for the supervision of counseling and job interviewing for college students. Mr. Skees notes that PAN AMERICAN opposed the program by U. S. E. S. He then moved that the Society go on record as being opposed to the U. S. E. S. concerning job employment at college level and furthermore that the Society notify other Societies, Universities in the southeastern United States, and representatives in the United States Congress of our position. The motion passed without further discussion.

Mr. Lincoln Werren then moved that the motion be reconsidered. Following a lengthy discussion this second motion was passed by a vote of 34 to 23.

Mr. Ewing reported on the A. A. P. G. business meeting in Houston, Texas,

Mr. Kirby named the candidates for the forth-coming election, which are as follows:

President:	Bill Skees Don Hugus
Vice-President:	R. C. Howard M. L. Oxley
Secretary:	Don Gifford F. B. St. John
Treasurer:	Jack Goodwin H. E. Karges

Following this announcement, Mr. Ross asked for additional nominations from the floor. Inasmuch as there were none, the motion was made and passed that the nominations cease.

The Spring Dance and Golf Tournament will be held May 10. The golf tournament will be held at the Colonial Country Club and the dance at the Heidelberg Hotel.

Mr. Bill Munroe moved that any proposals such as that previously submitted by Mr. Skees, be published in the Monthly News Letter prior to submittal for voting. Following a second, Mr. Munroe accepted an amendment to his motion which substituted the word resolution for the word proposal. Following this amendment, Mr. Munroe's motion was passed.

Following a 5 minute recess, Mr. Ed Launius, Program Chairman, introduced the speaker.

Mr. Walter Doeringsfeld of Denver, Colorado, was the speaker. The subject of Mr. Doeringsfeld's talk was, "Use of Photo Geology and Geomorphic Criteria to Locate Subsurface Structures." He discussed the use of drainage, land form, fracture, and tonal analysis in the interpretation of aerial photographs.

Following this talk, Mr. Ross adjourned the meeting at 9:30 p.m.

MINUTES OF THE MISSISSIPPI GEOLOGICAL MEETING

April 22, 1963

A special meeting of the Mississippi Geological Society was held at the Sun n' Sand at 12:00 noon, April 22, 1963. 49 members and guests were present when Mr. Ross called the meeting to order at 12:35 p.m.

Mr. Ross again announced that the dance and golf rournament will be held May 10, 1963. He also announced requests for AAPG candidates, the organization of the Society of Professional Earth Sciences. Organizational meeting of the Shreveport GCAGS meeting was held on April 18.

Mr. Browning announced that the Olin T. Brown Memorial Award will be made as soon as Mr. Oxley purchases the text books.

The geological projects, their chairmen, and their status are listed as follows:

Black Warrior Basin - Marvin L. Oxley - will finish next year.

Neshoba Ridge - Charlie Barton - to be presented early next year.

Regional Corelation - Jim Womack - no report.

Jurrasic - Jim Bollman - will finish next year.

Mr. Oxley reported on an investigation into the possibility of publishing a Lower Tuscaloosa Thesis by Mr. H. Vaughn Watkins, Jr.

Mr. Ross then called for any new business.

Mr. Oxley then moved that a motion to amend the By-Laws of the Mississippi Geological Society referring to standing committees be amended by the addition of:

I. Academic Committee

I. The Academic Committee shall serve as a liaison between the Society and the geology departments of the colleges and universities of this State. The exact purpose of this liaison shall be to promote interest in the field of petroleum geology and encourage the writing of articles, papers, and theses related to that field in the State of Mississippi. This end shall be accomplished through scholarship loans, thesis grants, summer job placements, and any other means available to the Committee,

The Committee shall also supervise all geologic projects, articles, and papers undertaken by the Society. The Chairman of the Academic Committee shall be the Vice-President of the Society.

He next made the following motion:

The Mississippi Geological Society shall establish a system of grants for any Masters or Doctoral Thesis directly related to the field of petroleum geology in the State of Mississippi. These grants shall meet the following requirements:

- 1) Shall be given on approval of the Executive Committee following written application of the student.
- 2) Shall not exceed \$200.00 (Two hundred Dollars) in value.
- 3) Shall be applied directly to the thesis on items such as materials or research.
- 4) An attempt to secure publication rights from each applicant shall be made prior to administering the grant.

Following a second by Mr. Browning, he moved that both motions be tabled until the first meeting of the next year, following a publication of the News Bulletin and that both these motions be published in that Bulletin. The motion carried.

Mr. Ross opened the floor for nominations for a delegate and alternate to the GCAGS for the coming year, Mr. Ewing nominated Mr. Bob Ross for the delegate and he was approved unanimously. Mr. Claude Smith then moved that the alternate be designated as incoming president. This also passed unanimously.

Mr. Frank Frascogna introduced Mr. Lane Hart, Director of Mississippi State Employment Service, who explained his views on the U.S.E.S. college placement program. Following his talk a number of questions were asked concerning this program.

Next, Mr. Skees arose and objected to the program on three major points. These points are as follows:

- 1) The industry would lose direct contact between employee, employer, and the universities.
- 2) People, namely job applicants, would be processed and their qualifications analyzed by mechanical computers.
- 3) The overall program is simply another step by the Federal Government towards the invasion of private enterprise.

A vote was not called and Mr. Skees original motion remains as old business.

Mr. Ross adjourned the meeting at 1:35 p.m.

TECHNICAL PAPERS, G.C.A.G.S. ANNUAL MEETING

The Annual Meeting of the G.C.A.G.S. will be held in Shreveport, Louisiana, October 30 - November 1, 1963. This year the theme of the meeting will be "Stratigraphic Oil, the Promise of the Future."

Any member of the Mississippi Geological Society who is interested in presenting a paper relating to this theme at the Annual Meeting, please contact R. T. Violette, Associate Editor, for full particulars. Our Society should be well represented this year in the technical portion of the meeting.

There is a July 1st deadline for all papers and illustrations.

JACKSON GEOPHYSICAL BARBECUE

The annual barbecue and picnic of the Jackson Geophysical Society will be held this year on Saturday, May 25, 1963, at Costa's Lake and Lodge located in North Jackson, Mississippi. Refreshments and recreation will begin at 2:00 P.M. For tickets, contact David Saliba with Sinclair.

JACKSON PETROLEUM GOLF LEAGUE

The Jackson Petroleum Golf League, consisting of 10 teams, is in its 3rd year. Officers include Mac Stewart, Mobil, President, and Ron Ohnoutka, Pan Am, Secretary-Treasurer. As of May 11, 1963, Lone Star was the leading team. Best low gross round was J. Chennault's (Humble) 73, followed by Buddy Cleveland's (Lone Star) 75. Best low net score is a three-way tie at 65 between Stewart (Mobil), Brann (Lone Star), and Bossemeyer (Sun). Pan Am leads the league in both team low gross (344) and team low net (284).

S. I. P. E. S.

The recently formed Society of Independent Professional Earth Scientists invites any independent geologist, geophysicist, paleontologist, or petroleum engineer who has freedom in the selection of his clients and who can meet the required professional standards and qualifications to apply for membership. Additional information and necessary forms are available (while they last) locally from R. B. Ross, 1241 Deposit Guaranty Bank Building, or from Carleton D. Speed, President, 711 Houston Club Building, Houston, Texas.

TREASURER'S REPORT

April 1, 1963

March 1, 1963 to April 1, 1963

On Hand March 1, 1963

Checking Account	\$ 999.30
Savings Account	2,358.20

INCOME AND EXPENSE STATEMENT

	<u>INCOME</u>	<u>EXPENSE</u>
<u>Administrative</u>		
Dues	\$ 9.00	
H. W. Webb, Jr. (Stamps)		\$ 4.40
Service Charge (Bank)		.22
Error in Addition	.50	
<u>Meetings</u>		
Mississippi Landmen's Association (MGS share of joint meeting)		116.85
Notice of Meetings		104.42
Meeting in Laurel		17.44
<u>Publications</u>		
Advertisement in Miss. Gem & Mineral Society		10.00
Printing of Publication & Lists		56.51
Sales	325.63	
<u>Dance</u>		
Committee Meeting		3.75
<u>Geological Projects</u>		
Committee Meeting		21.42
	\$ 334.63	\$ 335.01
On Hand April 1, 1963		
Checking Account		\$ 998.92
Savings Account		\$2358.20
Paid Membership 1962-1963 as of April 1, 1963370		

Leslie J. Franz, Treasurer
Mississippi Geological Society

TREASURER'S REPORT

May 1, 1963

April 1, 1963 to May 1, 1963

On Hand April 1, 1963

Checking Account	\$ 998.92
Savings Account	\$2,358.20

INCOME AND EXPENSE STATEMENT

	<u>INCOME</u>	<u>EXPENSE</u>
<u>Administrative</u>		
Dues	\$ 12.00	
<u>News Letter</u>		
Modern Duplicating		\$ 72.18
<u>Publications</u>		
Sales Tax		3.43
Jiffy Bags		8.01
Stamps		25.00
A.A.P.G.		6.85
<u>Meetings</u>		
R. A. Thompson Dinners	312.28	117.00
<u>Dance</u>		
Decorations		75.00
Type Letters for Dance		50.00
	\$ 324.28	\$ 357.47

On Hand May 1, 1963

Checking Account	\$ 965.73
Savings Account	\$2,411.26

Paid Membership 1962-1963 as of May 1, 1963. 376

Leslie J. Franz, Treasurer
Mississippi Geological Society

NEW MEMBERS

- Mrs. E. C. Radzewicz, Box 2004, Jackson, Miss.
- Mr. Lawrence E. Walter, Jr., Pan American Petroleum, Jackson, Miss.
- Mr. Barnard Dietz, 1239 Deposit Guaranty Bank, Jackson, Miss.
- Mr. Byrd Berman, Box 1490, Jackson, Miss.

MISSISSIPPI GEOLOGICAL SURVEY

Governor Ross R. Barnett reappointed Henry N. Toler and Dan T. Keel to new 4-year terms on the Survey Board running from July 1, 1963 through June 30, 1967. At the same time Governor Barnett appointed Toler as Mississippi's official delegate to the Sixth World Petroleum Congress at Frankfurt, West Germany, June 19-26.

William H. Moore was elected Chairman of the Geology and Civil Engineering section of the Mississippi Academy of Sciences, Inc., for the 1964 program.

Bulletin 97, "Mississippi Geologic Research Papers-1962", 106 pages in length can be purchased at \$1.00 per copy from the Director, Mississippi Geological Survey, P. O. Box 4915, Jackson 6, Mississippi. It contains papers by M. K. Kern, W. H. Moore, Leslie Hubricht, T. W. Lusk, and E. H. Rainwater. An excellent review of this Bulletin was carried in the Bulletin of the Houston Geological Society.

Bulletin 95, "Jasper County Mineral Resources" and Bulletin 99, "Attala County Mineral Resources," are scheduled for release around June 1. These well-illustrated Bulletins exceed 100 pages in length. They are priced at \$1.00 per copy and may be ordered now for delivery when released.

The Survey has completed its move from the University Campus to its office at 2525 North West Street. A relatively small amount of material belonging to the Survey will remain temporarily at the University.

The mailing lists for announcements have been revised to include all members of the Mississippi Geological Society. If you are not, but wish to be, included, or if your name or address are incorrect, the Survey will appreciate being notified.

The Director of the Survey would like to continue its Geologic Research Paper Contest as an annual affair. Favorable reaction to the idea has been received from other State Surveys and numerous individuals. In order for this to be successful, additional SPONSORS are needed and more contributors to the contest. The Survey welcomes your discussion on the matter of a research paper contest and resulting publication, such as Bulletin 97.

The Survey is preparing outlines for project proposals and other data to be used in preparation of its biennial report.

During the present school year the staff has made 18 high school visitations under the National Science Foundation-Mississippi Academy of Sciences program, talking to 2862 students. Many other appearances at schools, Boy Scout troop meetings, Civic clubs and other meetings have afforded an opportunity to tell the story of Mississippi's Mineral Resources, where the State, in thirty years, rose from 47th place to 21st in the Nation, from less than \$2,000,000 annually to over \$212,000,000 per year. Examination of statistical data shows the growth of the "hard minerals" to be expanding exponentially the same as has the petroleum industry, although the growth curve of the former lags behind the latter.

CANDIDATES FOR MISSISSIPPI GEOLOGICAL SOCIETY OFFICES

PRESIDENT

- Don Hugus, Independent Geologist
 Education - University of Texas
 Experience - Sun Oil Co., 1958-1963
 Independent Geologist, 1963 -
 MGS activities - Entertainment Chairman
 Professional societies - AAPG
- Bill Skees, Pan American Petroleum Corp., District Geologist
 Education - Texas College of Mines
 Experience - U. S. Dept. of State, 1949-1950
 Pan American Petroleum Corp., 1951 -
 MGS activities - Election comm., Advisory comm., Educational comm.
 Professional societies - AAPG, GSA

VICE-PRESIDENT

- R. C. Howard, Gulf Oil Corp., District Production Geologist
 Education - Texas Christian University
 Experience - Gulf Oil Corp., 1938
 MGS activities - Advisory Comm.
 Professional societies - AAPG, SEG
- Marvin Oxley, Lone Star Producing Co., Geologist
 Education - University of Oklahoma
 Experience - Lone Star Producing Co., 1957-
 MGS activities - Publications Chairman, Entertainment Chairman,
 Redbook Supplement, Chairman Black Warrior Basin
 study comm.
 Professional societies - AAPG, Jackson Geophysical Society

SECRETARY

- Don Gifford, Marr Co., District Geologist
 Education - Kent State University
 Experience - Union Producing Co., 1952-1955
 Seaboard Oil Co., 1955-1958
 Texaco, 1958-1960
 American Petrofina, 1960-1962
 Marr Co., 1962-
 MGS activities - Projection comm., Entertainment comm., Nominating
 comm.
 Professional societies - AAPG
- F. B. St. John, Humble Oil and Refining Co., Area Exploration Geologist
 Education - Princeton University
 Experience - Humble Oil and Refining, 1947-
 MGS activities - Advisory comm.
 Professional societies - AAPG

TREASURER

- Jack Goodwin, Texaco, District Geologist
 Education - Texas Christian University
 Experience - Seaboard Oil Co., 1956-1958
 Texaco, 1958-
 Professional societies, AAPG
- H. E. Karges, Consulting Geologist
 Education - Texas Christian University
 Experience - Shell Oil Co., 1948-1955
 Consulting Geologist, 1955-
 MGS activities - Chairman Boy Scout comm.
 Professional societies - AAPG, SEPM, Paleontological Society

GEOLOGICAL RE-EDUCATION COURSE

In connection with the favorable response to the education committee's questionnaire last fall, a sandstone seminar has been proposed for mid-November of 1963. The seminar would be under the direction of Dr. Dan Feray, T.C.U., assisted by professors Edward Heuer and Arthur Ehlmann, also of T.C.U. Scheduled for 3 consecutive days, probably Thursday-Saturday, the seminar would include lectures and laboratory work in accordance with the following outline:

- A. Pre-conference reading - selected references on clastic sedimentation and stratigraphy.
- B. First day of conference: Lectures
 - 1. Principles of sedimentation
 - a. Philosophy of tectonic control of sedimentation
 - b. Philosophy of environmental control of sedimentation
 - c. Processes of transgression and regression
 - 2. Environments of clastic deposition
 - a. Continental environment
 - b. Transitional environment
 - c. Marine environment
 - 3. Stratigraphy of clastic sediments
 - a. Lithofacies and biofacies relationships
 - b. Time and rock relationships
 - c. Methods of subsurface sandstone stratigraphy
 - (1) Regional lithological correlations, sections, and maps
 - (2) Regional faunal studies
 - (3) Regional structural maps
 - (4) Local detailed lithological and faunal studies
 - (5) Local detailed structure maps
 - 4. Petrology of sandstones
 - a. Megascopic and microscopic description of cores, outcrops, and cuttings
 - b. Techniques of binocular and petrographic microscope petrology
 - c. Qualitative versus quantitative studies
 - d. Newer Analytic techniques
- C. Second day of conference: Laboratory session
 - 1. Examination and description of sand samples from recent environments
 - 2. Examination and description of sand samples from ancient environments
 - 3. Evening discussion of samples using photo and thin section projection
- D. Third day of conference: Laboratory session
 - 1. Interpretation of Recent and ancient sandstones studied
 - a. Environmental classification
 - b. Cementation and porosity
 - c. Sandstones and unconformities
 - 2. Techniques for exploration of porous sandstone traps
 - a. Velocity characteristics - uphole velocity logs and surface expanding spread exploration
 - b. Maps prepared from log and sample studies
 - c. Stratigraphic trap exploration

Total cost of the program would be approximately \$2850. Present plans are to limit registration to approximately 50 participants. Cost to each participant will be approximately \$10, with the bulk of the cost of the seminar hopefully being paid for by donations from the various companies represented in the Society. In view of this cost, an indication of the number of probable participants is needed before plans can be finalized. Society members who are interested in participating are requested to fill in the application form on page 12 of this Bulletin. These forms should be presented at the annual election on May 28, or mailed prior to June 1, 1963 to W. A. Skees, Pan American Petroleum Corp., P. O. Box 689, Jackson, Mississippi. These forms are designed to help the education committee complete its plans, and they are not official registration forms. Since the number of participants is limited to approximately 50, registration will be on a FIRST COME-FIRST SERVED basis. Registration will begin at some future date.

In addition to the sandstone seminar, the Education Committee is developing plans for a similar program on Carbonate Rocks. The success of the sandstone seminar will determine to a large extent whether or not the carbonate seminar will be given.

.....

- () I am definitely interested in the sandstone seminar, and I am willing to invest \$10.00. I realize that registration is on a first-come first-served basis, and that this form does not constitute an official registration blank.
- () I will probably be interested in a carbonate seminar along the same lines as the sandstone seminar.
- () I am not interested in a carbonate seminar.

Name _____

Address _____

.....