BULLETIN



HOUSTON GEOLOGICAL SOCIETY

Houston, Texas

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BULLETIN

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THIS MONTH

Meeting Notice	Page	2
Speakers and Abstracts	Page	3
Outstanding Student Awards	Page	6
Committee Reports	Page	8
News of Other Societies	Page	16
In Memoriam	Page	18
Publications List	Page	19

EDITOR - FORREST J. FIEDLER - 227-4371

4	Associate Editors		
	In Memorium	Edward G. Lipp, Crown Central	222-6285
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	Geo Science Nates	James G. Ward, Jack Colle Assoc	227-6266
		Edward H. Rainwater, Tenneco	
	Items of Interest	William G. Elliott	771-2941

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MEETING NOTICE

There will be two meetings during the month of May, 1971.

REGULAR EVENING MEETING

TIME: Monday, May 19, 1971

Cocktails - 5:00 P.M. Dinner - 6:00 P.M. Drinks - \$1.25 each Dinner - \$5.50

PLACE: Houston Club, 10th Floor, The Houston Club Building

SPEAKER: Dr. Samuel P. Ellison, Jr.

University of Texas at Austin

SUBJECT: "Geology of the Middle East"

#

SPECIAL NOON MEETING

TIME: Wednesday, May 26, 1971

12:00 NOON Lunch - \$3.50

PLACE: Rice Hotel Crystal and Trinity Rooms

SPEAKER: H. O. Woodbury, Chevron Oil Company,

George C. Matson Award Winner 1971 AAPG Convention

SUBJECT: "Plio-Pleistocene Geology, Outer Continental Shelf,

Louisiana and Texas."

The American Association of Petroleum Geologists

Distinguished Lecture Tour

GEOLOGY OF THE MIDDLE EAST

Samuel P. Ellison, Jr.

ABSTRACT

A coincidence of sedimentological, stratigraphic and structural conditions is the reason for the occurrence of more than ten super-aignt petroleum fields in the Arab countries bordering the Gulf of Arabia. Sixty percent of the known petroleum reserves of the world are located in this large asymmetrical Mesozoic-Cenozoic basin northeast of the Arabian Shield. Marine shales, siltstones, sandstones, limestones, evaporites, including salt, do lo mite, gypsum, and anhydrite, and non-marine strata make up a complex stratigraphic section ranging from Cambrian to Holocene. The large reserves of petroleum are in Mesozoic and Cenozoic sandstones and limestones where traps may be controlled both by sedimentary facies and structure. Faulting and folding of a wide variety have accompanied the making of the basin and of special note are the great overthrusts with large scale plastic deformation. Salt intrusions are abundant in the southern part of the Gulf of Arabia and in the southern Zagros Mountains.

The Gulf of Arabia is along the border and parallel to the edge of the Arabian Shield where it abuts the Tethys Fold Belt. Plate tectonic concepts suggest a squeezing together (compressing) of the Arabian Shield and the main mass of Asia. Possibly this particular structural, stratigraphic, and sedimentologic geologic model should be a guide to geologists seeking other such future petroleum provinces.

BIOGRAPHICAL SKETCH



Born:

July 1, 1914, Kansas City, Missouri

Academic Background:

1936 - B.S. - Geology & Geography, University of Kansas City. 1938-M.S. - Geology, University of Missouri.

1940-Ph.D.-Geology, University of Missouri.

Experience:

1939-1943 - Instructor of Geology, University of Missouri School of Mines and Metallurgy. 1943-1944 - Assistant Professor of Geology, University of Missouri School of Mines and Metallurgy.

1944-1945 - Geologist, Stanolind Oil & Gas

Company, Midland, Texas.

1945-1947 - Senior Geologist, Stanolind Oil & Gas Company, Midland, Texas.

1947–1948 - District Geologist, Stanolind Oil & Gas Company, Wichita Falls, Texas.

1948-Pres. - Professor of Geology, University of Texas at Austin.

1953-1956 - (Summers) Consultant to Shell Oil Company, Casper, Wyoming.

1957-1965 - (Summers) Consultant to Humble Oil & Refining Company, Houston.

1965-Pres. - (Summers) Consultant to Esso Production Research Company,
Houston, Texas.

Research and Publications:

Micropaleontology, Petroleum Geology, Stratigraphy, Geological Educational problems, and Resource Geology.

Memberships:

American Association of Petroleum Geologists
Geological Society of America
Society of Economic Paleontologists and Mineralogists
Paleontological Society
National Association of Geology Teachers
Society of Petroleum Engineers
American Association for Advancement of Science
American Institute of Professional Geologists

#

PLIO-PLEISTOCENE GEOLOGY, OUTER CONTINENTAL SHELF, LOUISIANA AND TEXAS

H. O. Woodbury, I. B. Murray, Jr., W. H. Akers, Chevron Oil Company, N. O., La. 70112, and P. J. Pickford, Chevron Oil Company, Houston, Texas

ABSTRACT

Pliocene and Pleistocene deposition on the Outer Continental Shelf and upper Continental Slope offshore from Louisiana and Texas was a continuation of the process of prograding deltaic sedimentation with associated hydrocarbon accumulation that has been active in the northern Gulf of Mexico since the end of the Cretaceous. However, this more recent phase of the geologic history of the northern Gulf of Mexico Basin differs from the earlier Tertiary history of the area in several significant aspects:

- 1. The rate of sediment deposition was high, and the rate of seaward progradation of the continental shelf edge was rapid. The Plio-Pleistocene embraced only 5 million years, whereas the Miocene lasted 17 million years, yet the volume of sedimentation deposited during each epoch is comparable.
- The center of deposition moved northeast, from southwest Louisiana in the lower Miocene to southeast Louisiana in the upper Miocene - lower Pliocene, and

then shifted westward again in the Pleistocene. This shifting in depocenters was accompanied by a progradation of the continental shelf edge to its present position near the 600 ft. isobath. Hydrocarbon productive trends follow these shifting depocenters.

3. The bulk of the Plio-Pleistocene sediments was deposited upon substrata which is made up of several thousand feet of mobile salt plus a comparable thickness of mobile, deep water pro-delta clay. The weight of the accumulating sediments has caused movement of the underlying mobile material so that today the structural condition of the sediments in the Plio-Pleistocene depocenters is complicated by a great number of large piercement salt domes and ridges; by domes and ridges of diapiric shale; and by many normal faults with displacements up to thousands of feet with omnidirectional strike and dip.

BIO GRAPHICAL SKETCH



Olie Woodbury is a native of Boulder, Colorado, and received his BS in 1941 and his MS in 1942 from the University of Colorado. Upon receiving his Masters degree, he went into the Navy as a Photo Interpreter, where he served with the Fast Carrier Task Force in the Pacific 1943–1944, and later he also taught photo intrepretation at Annapolis.

Upon leaving the Navy in 1946 he joined The California Company in the Rocky Mountains, working in Rangley, Denver, and as District Exploration Superintendent in Casper 1952–1955. Transferred to New Orleans in 1955, he worked for three years in Evaluations Geology with Harold Hickey, and since that time he has been on the staff of the Chief Geologist, working regional

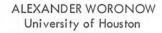
problems of the Gulf and Atlantic Coastal Plains, with emphasis on stratigraphy.

Olie has been active in the geological societies having served as Secretary of the GCAGS in 1962 and as President of the New Orleans Geological Society in 1965. He presented a paper at the Shreveport GCAGS last year co-authored by Luther Powell, Chevron Oil, entitled "Possible Future Petroleum Provinces of the United States Western Gulf Basin - Pleistocene," which is being published by the AAPG in their new volume of "Future Oil Provinces of the United States."

The paper Olie will give to us was co-authored by I.B. Murray, Staff Geologist Chevron Oil Company, New Orleans, W. H. Akers, Staff Paleontologist, Chevron Oil Company, New Orleans, and P. J. Pickford, Division Geologist, Chevron, Houston, and won the AAPG George C. Matson Award for excellence when presented at the AAPG Convention in Houston last March.

OUTSTANDING STUDENT AWARDS

Each year at the May meeting, the Houston Geological Society presents awards of \$100 each to five outstanding geological students selected by the faculties of five universities in the Houston area. The awards will be presented this year to the following students:





Mr. Woronow will receive a Master's Degree from the University of Houston and has been admitted to the Harvard Graduate School to pursue the PhD Degree. His thesis title is "The Coulomb-Mohr Criterion: An Experimental Study of Its Effectiveness as a Predictor of Rock Failure Strength and Geometry". Mr. Woronow's thesis advisor is Dr. Carl E. Norman.

Mr. Woronow's previous college experience was at Long Beach City College, Long Beach, California, and at the University of California at Berkeley. From 1967 to 1969, he was an aero-space engineer at the Manned Spacecraft Center in Houston. At the University of Houston, Mr. Woronow has achieved an over-all grade point average of 3.85 out of a possible 4.00

JIMMIE L. JORDAN Lamar State College



Mr. Jordan, a senior at Lamar State College of Technology in Beaumont, has compiled the all-time highest academic record in the Geology Department, having received no grade less than an "A" in his $3\frac{1}{2}$ years so far. He plans to attend a graduate school next year.

He is a member of the Lamar Tech Geological Society and the Freshman Honor Society, and is listed in "Who's Who in American Colleges and Universities."

IAN EVANS Texas A & M University



Mr. Evans will receive a PhD in Geology at A & M in August, 1971. His dissertation is entitled "A Paleoecological Analysis of the Whitestone Member of the Walnut Formation, Lower Cretaceous, Williamson and Travis Counties, Texas."

He is a native of the United Kingdom and received his Bachelor's Degree from the University College Swansea (University of Wales) in 1966. He graduated magna cum laude. He earned a M.S. in Geology from the University of South Carolina in 1968.

Mr. Evans has been a teaching assistant at South Carolina, a research assistant in the Marine Biology Division of the U.S.

Atomic Energy Commission in Puerto Rico in the summer of 1967, and a research assistant at Texas A & M from 1969 to the present time. He received a full scholarship during his studies at University College Swansea, a Humble Oil & Refining Company Fellowship at Texas A & M University, and is now receiving research support from a Pennzoil Fellowship. He is a Fellow of the Geological Society of London, an Associate Member of SEPM, and an Associate Member of the Society of the Sigma Xi.





Mr. Johnson will receive his PhD at Rice this year. The title of his dissertation is "Structural Geology of the Eastern Half of the Marble Canyon Quadrangle, Death Valley, California." The area is complexly thrust faulted, and detailed field mapping was necessary to determine the structural history of the area. Mr. Johnson's advisor is Dr. B. C. Burchfiel.

Mr. Johnson received his B.S. and M.S. Degrees in Geology from San Jose State College, San Jose, California. He has received a teaching fellowship and a National Science Foundation Traineeship at Rice. His primary interests are in field-oriented structural geology and in stratigraphy and petrology. He is the president of the geological graduate student society at Rice.

RAFIK SALEM University of Texas at Austin (No Picture Available)

Mr. Salemis working on a PhD at Texas under the supervision of Dr. Robert L. Folk. His dissertation topic is "Petrography and Diagenesis of Tertiary Rock, Baharia Oasis, Egypt, and Its Bearing on Regional Geology and Oil Prospects." He has been a teaching assistant at Austin and has also received a research assistantship. He is president of the local chapter of Sigma Gamma Epsilon, honorary geological fraternity.

Mr. Salem received his Bachelor's and Master's Degrees from the University of Cairo in 1959 and 1963, respectively. His previous professional experience has been with the Desert Institute in Cairo, Eastern Petroleum Company in Cairo, and Phillips Petroleum Company in Alexandria, Egypt and Bartlesville, Oklahoma.

COMMITTEE REPORTS

Convention Committee:

The 1971 AAPG-SEPM Convention has passed into history, and though most of us who were involved in its planning and administration are happy with the results, a few complaints have been filtering in.

First Major Complaint: The registration fee

The word came to us that it was too high at \$26.00 (though this was \$4.00 less than at Calgary last year), that all a person got was a name badge and a ticket for one free drink, and that AAPG was trying to make a lot of money off conventions.

Explanation: Sure, \$26.00 seems like a lot of money, but have you really looked at prices of goods and services recently? The printing bill on the convention will total about \$9,000. The audio-visual bill is slightly over \$10,000; furniture rental, equipment and signs about \$5,000; contract personnel another \$2,500 and shuttle buses \$3,000. The list goes on and on, but all this has to be paid for and the bulk of the money comes from registration fees.

A registrant at a convention certainly gets more than a name badge and a free drink. An AAPG Convention is about the best continuing education activity offered. Your badge admits you to three days of concentrated classes on a large variety of subjects plus opportunity to visit a number of commercial and educational exhibits plus a theater. The local complaint that "all I wanted to do was hear a couple of papers but the guards wouldn't let me in without a name badge" falls on the deaf ears of the dedicated group that really worked to put this convention on and realized the costs involved.

How about AAPG making a big profit on the Convention? We hope to be in the black by five thousand or so, but every once in a while a convention doesn't make money and those deficits have to be made up some way. AAPG Headquarters has a convention staff of one man and a secretary that are paid from Convention receipts to handle convention matters exclusively. Those people really understand the mechanics of convention preparation and are very valuable to the local volunteer committee chairman and workers. Space reservations have to be made years in advance for large conventions, and the Tulsa staff has already done this for Denver next year, Anaheim in 1973, San Antonio in 1974, and New Orleans in 1975.

Second Complaint: Things were too crowded in the Shamrock-Hilton Hotel.

You're right! There were crowds, but weren't they happy and congenial crowds? We who worked on the convention were very happy about the attendance in the technical sessions. Do you know that the AAPG Convention is one of the few held annually in the United States where session attendance is on an uptrend? Some trade association meetings are dying because of poor attendance.

Ladies Complaint: The Food at the Astrodome Club on Monday was terrible.

That we have all heard about. Old Roy really bombed us on that one, so next time you go to a baseball game pick up a hamburger at Jack in the Box or take your own six-pack. That'll show him.

Well, it was a wonderful experience being General Chairman of an AAPG Convention, but once is enough.

-- Edd R. Turner, Jr.

Chairman

EDITOR'S NOTE: I trust that Edd is receiving more than negative criticism. I have heard compliments from all sides – speakers, session chairmen, and conventioneers. Thank you Edd, for a tough job well done!

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KEPLINGER AND ASSOCIATES Petroleum Engineers and Geologists 1436 Americana Bldg. Houston, Texas 77002 227-3127 229 Kennedy Bldg. Tulsa, Oklahoma 74103 587-5591	GEORGE N. MAY & ASSOCIATES Consulting Geologists and Paleontologists Building 36, Heymann Oil Center P. O. Box 51858 Oil Center Station Lafayette, Louisiana 70501 234-3379
GENTRY KIDD and SHIRLEY L. MASON Geologists 813 Esperson Bldg. 227-8231	W. B. McCARTER C. E. McCARTER Independents 2522 Hazard 523-5733 529-1881 Houston, Texas 77019
L. A. KIMES Exploration Consultant 9183 Katy Road Geology Geophysics 464-2951	R. B. MITCHELL Geologist 2801 First City National Bank Bldg. Houston, Texas 77002

JOHN C. MYERS Consultant in Oil, Gas and Sulphur 1207 Bank of the Southwest Bldg. 225-4133 • 225-4559 Houston, Texas 77002	FRED L. SMITH, JR. Consulting Geologist Paleontologist 1014 C & I Building Houston, Texas 77002 468-7300 225-5757
I. K. NICHOLS Gulf Coast Exploration Geologist C.P.G. No. 932 41 Still Forest Dr. Houston, Texas 77024 Phone: 782-4970	H. C. SPOOR, JR. HARRY KILIAN Geologists 2130 Chamber of Commerce Bldg. Houston, Texas 77002 224-0588
KENNETH DALE OWEN Geologist Esperson Building Houston, Texas 77002	STALLWORTH & HURST Geological, Petroleum & 59 Mezzanine Civic Engineering Drafting Chamber of Commerce Bldg, Volumetric Planimetry Houston, Texas 77002 Phone: 223-7343
ROLAND B. PAXSON Consulting Geologist Oil and Sulphur 3524 Sunset Blvd. 668-9196 Houston, Texas 77005	CRAMON STANTON Geologist 2229 Chamber of Commerce Bldg. Houston, Texas 77002 224-2759
RAYMOND D. REYNOLDS Geologist 436 Bankers Mortgage Bldg. Houston, Texas 77001 227-7633	S. BROOKS STEWART Geophysical Consultant 320 Bankers Mortgage Bldg. 222-7718 Houston, Texas 77002
A. L. SELIG 1907 Bank of the Southwest Bidg. 224-9774 Houston, Texas 77002	HAROLD VANCE Petroleum Investment Counselor Petroleum Evaluation Engineer 227-3949 1429 Bank of the Southwest Bldg. Houston, Texas 77002

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MERLIN J. VERRET Geologist Suite 401 ● Magnolia Life Bldg. Lake Charles, Louisiana 70601 Phone:477—436-9575	GEORGE F. WATFORD Prairie Producing Company 573 The Main Building 225-5413 Houston, Texas 77002
LEBEN DRILLING INC. STANLEY WAHL Exploration Manager 333 Park Avenue Building—Suite 217 Oklahoma City, Oklahoma 73102 (405) 232-8516	JOSIAH TAYLOR Consultant 3262 Sul Ross, Rm 106 Houston, Texas 77006 Office Home 522-9788 723-2527
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JAMES A. WHEELER Geologist C.P.G. No. 109 926 Americana Bldg.—223-1618 Houston, Texas 77002	
JAMES M. WILSON Geophysical Consultant 246 Main Bldg. 225-2145	

The new directory is now available. You may purchase a copy from the down-town office, 234 Esperson Building, or call 223-9309 for mail orders. Cost of the book is \$782 (includes tax) plus 65¢ for postage and handling.

Orders received to date have now been distributed. Post Office postage rates made it impossible to mail the books for the published purchase price. The Directory Committee, with the help of several "unsuspecting volunteers" have delivered to all in the local area. All out of town orders were mailed as originally planned.

An errata sheet covering errors made in the printing is now being compiled. If there is an error in your listing (based on your Directory Information Card submitted last year), please notify the Directory Office - 223-9309. The next issue of this Bulletin, June 1971, will carry an insert which you may paste up in your directory to show corrections. Because of specific publication dates, the deadline for receiving this information must be May 14, 1971.

#

Houston Museum of Natural Science:

Summer Classes Announced by Houston Museum of Natural Science.

The Museum has announced its schedule of summer nature classes for children five years of age through teenage. The classes, divided into age groups, will start on June 8, and end July 30, 1971.

Subjects through the eight weeks will be on fossil mammals, starfish, pond life, desert plants, reptiles and others. Each child will attend one class a week, and arrangements can be made for children of a family to attend the same classes where age differences are not too great.

Field trips for children age 10 and over will be held on Mondays beginning June 14. These classes will visit Galveston to study marine life and Sheldon Reservoir. Cost is \$5.00 per child which includes lunch.

Admission to classes is free to children of members of the museum. Family membership is \$15.00 per year, which also allows free admission to planetarium shows and other special lectures and a discount at the nature shop. If interested call the Museum at 526-4273 for information.

#

Delta Study Group

The Delta Study Group has a new publication -- one of interest to every member of the Houston Geological Society. This publication -- "Deltas of the World, Modern and Ancient" is the first published bibliography on deltas and contains over 1200 citations. There is also an extensive index so that pertinent papers may be located quickly.

The bibliography is a limited edition so order yours now and order a copy for the company library. They are only \$1.50 each, plus 6¢ tax. -- Martha Broussard

GOLF TOURNAMENT & BINGO PARTY

There's a fun day coming! Friday, May 14, the H.G.S. will sponsor its annual golf tournament, followed in the evening by a finger-licking-good barbecue dinner and exciting bingo. The golf tournament will be entirely separate from the barbecue and bingo, so non-golfers are urged to bring their wives out for the food and fun of the evening. Both events will be held at Sharpstown Country Club.

First, information about the golf tournament. Tee-off times will start at 9:50 a.m. (#1 tee only) and continue at seven minute intervals until 2:30 p.m. The number of starting times available will limit the tournament to 160 golfers. Call 433-3671 (United Core) to obtain a starting time. The tournament field will be divided into four flights with gift certificates to the pro shop going to the three best golfers in each flight. A handicapping system will be used to determine flight winners, so all golfers will have a shot at the certificates. Aprize will be given for "closest to the hole" on each of the four par 3 holes, and for "longest drive" on each of the three par 5 holes. The player with the low gross score will receive the beautiful Dresser-Atlas silver service (a rotating trophy). In order to spread the "goodies" evenly, only one prize per golfer will be allowed. Participants must be HGS members. The entry fee will be \$5.00 per golfer (\$1.00 for Sharpstown Country Club members). An endless supply of beer will be available to combat heat and/or frustration.

Now, details about the evening entertainment. Dinner will consist of delicious barbecued beef and chicken with all the trimmings. There'll be many great bingo prizes including a portable TV. Ice cold beer will flow freely throughout the evening. All of this will cost just \$4.00 per person! Sorry, no guests will be permitted -- only HGS members and mates. Dinner will be at 7:30 p.m. The dress will be casual. Tickets must be purchased in advance, preferably by mail. An envelope is enclosed for your use. Send a check payable to "HGS Dinner" along with a self-addressed stamped envelope, and your tickets will be quickly returned. It will be impossible to fill orders postmarked later than May 11th, so don't delay. HGS officers and Entertainment Committee members will also have tickets for sale.

May 14th is going to be a fun day at Sharpstown Country Club. Don't miss it!

Transportation Committee

CHANCE

.....Last chance to travel this year to Europe (Amsterdam) at bargain charter rates, via a direct 707 World Airways jet between Houston and Amsterdam with first class meals and an OPEN BAR.

LAST

The HGS sponsored flight departs Houston the evening of June 11, arriving in Amsterdam June 12. The return flight will leave Amsterdam July 4, arriving Houston

The cost is estimated between \$295 and \$320, but is dependent on the number of seats sold. Children under two go free, if no seat is required, and for half fare if under

For additional information and availability of seats contact Arthur Christensen, c/o Shell (New Orleans), P. O. Box 127, Metairie, La. 77004, Ph. (504) 834-3560, ex. 308. Arthur who transferred from Houston last January, is the Chairman of the Transportation Committee and is the organizer of the charter flight arrangements.

S.E.P.M. - Gulf Coast Section

Dr. John Warme of Rice University will present a paper entitled "The Ecology and Biological Destruction of Submarine Outcrops of Rocks" at the next meeting of the Houston-Gulf Coast Section, SEPM at Wyatt's Cafeteria, Sharpstown. Dinner is at 6:00 PM, meeting at 7:00 PM, Wednesday, May 5, 1971. All Geo-Scientists and friends are cordially invited to attend. Dr. Warme has recently presented a Paleo-ecology Course to the Industry at Rice, and conducted a successful field trip in Central Texas as part of the AAPG-SEPM Convention here. The talk to be given on May 5th will be profusely illustrated with magnificient underwater slides.

#

New Officers - East Texas Geological Society

The following new officers, directors and delegates were recently elected by the membership of the East Texas Geological Society.

Officers for 1971-1972:

President - Mr. Henry Holland, Independent, Tyler Texas Vice-President - Mr. Wade C. Ridley, Independent, Tyler, Texas Secretary - Mr. Bruce Wilder, Independent, Tyler, Texas Treasurer - Mr. Robert J. Ray, Independent, Tyler, Texas

Board of Directors for One Year Term - 1971-1972:

Mr. Jim Dowdy, Samedan, Tyler, Texas

Mr. Robert A. Hall, Independent, Tyler, Texas

Mr. Vernon Hunt, Independent, Tyler, Texas

Mr. Charles McLarty, Independent, Tyler, Texas

Mr. Thomas H. Walker, Independent, Tyler, Texas

A.A.P.G. Delegate for 1970-1972 Term:

Mr. Jim Ewbank, Delegate, Delta Drilling Co., Tyler, Texas

Mr. Gerry Merket, Alternate, Atlantic Richfield Co., Tyler, Texas

A.A.P.G. Delegate 1971-1973 Term:

Mr. Wade Ridley, Delegate, Ridley & Locklin, Tyler, Texas Mr. Charles Halstead, Alternate, Independent, Tyler, Texas

The American Association of Petroleum Geologists

A reciprocity agreement between the AAPG and the Society of Independent Professional Earth Scientists (SIPES) was completed during the 56th Annual Convention of AAPG here this week.

The agreement provides reciprocity for members of SIPES with the Professional Division of AAPG in the area of membership certification. It does not include operational or administrative activities of either group.

In a joint statement, William H. Curry, AAPG president and a Casper, Wyoming consulting geologist, and Carroll R. Pope of Lafayette, Louisiana, president of SIPES, stated: "This agreement is within the spirit of cooperation with sister societies. We are all working toward the same goal in some respect and working together is simply good business. Geologists have the same problems as others in business, and the closer cooperation of our various organizations will serve to help alleviate some of these problems."

SIPES is an organization of independent earth scientists who have a freedom of choice in working with clients. AAPG is the world's largest geologic organization with 15,000 members in all 50 states and 80 foreign countries.

#

THE TAXES WE PAY in the TEXAS PETROLEUM INDUSTRY

State Taxes Paid in Fiscal 1970 by Oil & Gas In Texas

Crude Oil Production	\$170,449,000
Natural Gas Production	96,377,000
Crude Regulatory	2,152,000
Gas Pipeline Regulatory	1,530,000
Well Servicing	874,000
Ad Valorem (Property)	20, 244, 000
Franchise	27,569,000
TOTAL	\$319,195,000

In addition, the State collected \$312 million taxes on motor fuel, the industry's main product.

Texas Petroleum Industry Taxes Provide...

- 22.7% of State tax revenues for public education.
- 52.1% of State financing for the following funds:

Teachers' Retirement; Old Age Assistance; Blind Assistance; Dependent Children Assistance; Medical Assistance; Farm-to-Market Road; Disabled

Compiled by Texas Mid-Continent Oil & Gas Association from official reports for 1970 year.

IN MEMORIAM

HERBERT CRESTON SMITH (1909-1970)

Herbert Creston Smith, consulting geophysicist and geologist passed away July 23, 1970, after a brief illness.

I had the privilege of knowing Herbert and his wife, Ella Lea, for some thirty years, and to watch their two children, Herbert, Jr. and Alyce Lou, grow to adults. In fact, I first met Herbert in 1937 when he was enrolled in Special Studies of the School of Geology at Louisiana State University. This meeting began a friendship which will always be cherished.

Herb, as his friends called him, was born June 10, 1909, in Minden, Louisiana. He received his education at Byrd High School, Shreveport, Louisiana. He earned a B.S. in Mechanical and Electrical Engineering From Louisiana Polytechnic Institute in 1930, and a degree in Civil Engineering in 1931. He participated in intercollegiate sports, earning a letter as a distance runner on the track team.

Herb graduated at the early part of the great depression, but because of his ability and education he was able to obtain employment. During the years from 1931 through 1936 he worked for the Louisiana Highway Commission, United States Coast & Geodetic Survey in Louisiana and Florida. He was also a Field Engineer for the USGS and TVA in Chattanooga, Tennessee.

In 1936 he joined Seismic Exploration and remained with them until 1957. When he resigned he was Seismic Supervisor, directing field crew operations, coordinating geophysical surveys, client liasion and final reports. From 1957 to 1961, he was Vice-President and Chief Geophysicist for Reynolds Southwestern Corporation of Houston. He operated as a consultant from 1961 until his death.

Herbert was a competent geophysicist and was dedicated to his profession. He knew the value of geology and believed strongly that geologists and geophysicists should work more closely. He believed in doing an honest day's work for a day's pay. He kept meticulous records, particularly of his time he worked on a project. A client was never short changed by Herb.

He was a member of the following societies: Society of Exploration Geophysicists, American Association of Petroleum Geologists, Society of Independent Professional Earth Scientists, Geophysical Society of Houston, and The Houston Geological Society.

He was well thought of and respected by his fellow geophysicists and geologists. He was a devoted husband, father, and a good Christian. He was a member of St. Luke's Methodist Church.

Herbert will be missed by all his loved ones and friends; and the profession has lost a truly dedicated member.

-- Jack Colle

HOUSTON GEOLOGICAL SOCIETY Publications List

The following publications of the Houston Geological Society are available through the HGS Business Office.

Addre	ess:		Zip
Name	e:		
instit	on are	a 3	les are all plus postage and handling. $4\frac{1}{4}\%$ tax is charged on all orders in the $\frac{1}{4}\%$ tax is charged on all state orders and no tax charged on eleemosynary haddress your orders to : Houston Geological Society, 234 Esperson Bldg., s 77002. Attn: Publications Department.
	1959	-	MAPS - Geological Strip Map - U. S. Highways 80 & 90 Louisiana State Line to New Mexico State Line
	1959	-	STUDY GROUP REPORT - Frio Formation of the Upper Coast of Texas. \$1.00
	1962	-	GEOLOGY OF THE GULF COAST and Central Texas\$2.00
	1962	-	TYPICAL OIL & GAS Fields of Southeast Texas
	1968	-	WILCOX - Field Trip Guidebook - Environments of Deposition Wilcox Group - Texas Gulf Coast
	1 971	- '	*DELTAS of the World, Modern and ancient – a bibliography
	1968	-	HOLOCENE Geology of the Galveston Bay Area - Compiled by Robert R. Lankford and John J. W. Rogers
	1966	-	DELTA SLIDES (24 slides – companion to above)\$8.50
	1966	-	DELTAS in Their Geologic Framework
	1971	-	H.G.S G.S.H. PHOTO DIRECTORY
	1971	- *	ABNORMAL PRESSURE STUDY REPORT\$5.00

^{*} A New Houston Geological Society Publication

On The Distaff Side

April 14 was really a geological day! At the Briar Club that morning, the Geo-Wives held their business meeting to install new officers, Bea (Mrs. Ted) Hole is President for 1971-72, assisted by Midge (Mrs. Robert) Schrock as First Vice-President and President-Elect. Glenna (Mrs. James) Floyd began her duties as Second Vice-President with Jo (Mrs. Bruce) Frazee as the new Secretary. Mary (Mrs. Wiley) Harle will serve as Treasurer, while Ethel (Mrs. Daniel) Nisley has the job as Historian-Parliamentarian.

Hobbies of members was the theme for the program at this meeting; and what diverse talents these ladies possess. Avis (Mrs. George) Thomas, the retiring President of Geo-Wives, brought some of hersculpture to exhibit. At a recentart show, she had won first, second and third prizes, and this month is exhibiting at Sharpstown. Mary Harle assists husband Wiley in his hobby as a lapidary, so she brought some of their work to the exhibit.

Needlework is a recreation for many ladies, as shown by Ethel Nisley's sewing and Bea Hole's needlepoint. Rita (Mrs. Leale) Slate brought both sewing and needlework.

Mary Lou (Mrs. Russel) Seward does woodworking with her husband, exhibiting a jewel cabinet they recently completed.

Madge (Mrs. William) Frew brought Some Christmas candles she had made, but her favorite hobby is writing entries for all sorts of contests. As proof of her most recent successful entry, she brought along one volume of the encyclopedia presented to her by Johnson and Johnson for her entry in their scholarship contest titled "What My Education Means to Me".

As door prizes the club presented items made by members: an apron by Marilyn (Mrs. John) Hern; beautiful baked goods from the kitchens of Sally (Mrs. Dan) Shaw and Tish (Mrs. C.H.) Roberts; and a pen and ink sketch on glass with gold leaf backing made by Avis Thomas.

#

Later that same day the Houston Geological Society held its shrimp peel for a sell-out crowd. Margery (Mrs. B. C.) Phillips and her committee has mailed notices of the three upcoming events on April 14, May 14 and June 14 to the home addresses of members, and the response was phenomenal. Reaves Jackson, the men's social chairman, wins the unquestioned blue ribbon in the "HGS Peel-Off Contest" for the delicious shrimp. And you really haven't lived until you have eaten a new potato boiled in the same highly seasoned water. It's an altogether new and different flavor for potatoes. We can hardly wait for the golf tournament and supper on May 14 to see what Mr. Jackson has planned next for our pleasure.

Visiting around in the crowd gave me the impression that if only three-fourths of the couples planned to join the charter flight to Europe before the Moscow meeting actually get packed and away on schedule, Houston will be practically denuded of

geologists. Some of the prospective travelers include Marilyn and John Hern, Mary Lou and George Carver, Ruth Ann and Jim Grady, Gladys and Al Selig, and many more. Side trips planned vary from Scandinavia to Austria to a complete Round-the-World return route. Happy cholera shots and Bon Voyage to all!

#

Personal notes gathered here and there don't always fall under related categories, but at least they give you the feeling that geologists and their familes are involved in every possible kind of activity.

Grace and Jack Chambers got a thrill on Wednesday before Easter when their son came home from Viet Nam unannounced and just walked in as if he had never been away.

Teddine and John Loftis have a grandchild and also expect son Vincent to be returning from Viet Nam soon.

Both Glady (Mrs. David S.) Sheridan and Catherine (Mrs. Ronald K.) Thies have recuperated from their post-convention illnesses. We're glad they are up and around again.

I hardly see how Beth and Wade Turnbull can keep up with their globe-trotting children, since daughter Marty will tour Europe with the Memorial High School Chorale after graduation and son Bill will soon be stationed in Hawaii.

Helen (Mrs. David) Hedley is planning to join her high school and college "E.O.E." group for their 50th Reunion at Norman, Oklahoma, in late April. Some fifteen of the original twenty-five plan to attend.

Georgia (Mrs. Dean) Grafton is another of our artistic members who has exhibited work recently in art shows in Dallas and Austin.

Polly (Mrs. Edd) Turner is just back from the T-Bar-M Ranch in New Braunfels, where sheattended the tennis clinic directed by Australian champion John Newcombe.

We offer our sympathy to Theresa and Gene Van Dyke on the recent death of Theresa's mother. Mrs. Connelly had a distinguished career as a nurse being a former director of pediatrics at George Washington in St. Louis, director of the school of nursing at Yale, and also the founder of the Red Cross Nurses Aid Program in Houston in 1942.

If any of you are island hopping in the West Indies this summer, make a sidetrip to Georgetown, Guyana, and drop by to see Hal and me at the Pegasus Hotel. We'll be missing our Texas friends, but if you can't come, write to keep us posted on the news.

Sally Bybee

T. Wayne Campbell

John B. Dunlap, Jr.

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