TRANSACTIONS
GULF COAST ASSOCIATION OF GEOLOGICAL SOCIETIES

A SECTION OF THE AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS

VOLUME XXXI, 1981

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PREPARED FOR THE
Thirty-first Annual Meeting of the
Gulf Coast Association of Geological Societies
AAPG REGIONAL MEETING
AND
The Twenty-eighth Annual Meeting of the
GULF COAST SECTION OF THE
SOCIETY OF ECONOMIC PALEONTOLOGISTS AND
MINERALOGISTS

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OCTOBER 21, 22, 23, 1981

Published at
Corpus Christi, Texas

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Cover Art — H. O. Wyneken, Corpus Christi
DEDICATION
1981 GCAGS Transactions Volume
To

W. ARMSTRONG PRICE
The officers and Executive Committee of the GCAGS, in conjunction with the officers of the Corpus Christi Geological Society, have the honor and pleasure of dedicating the 1981 Transactions volume to W. Armstrong Price in recognition of his contributions to the geological profession and to Gulf Coast geology over the past 60 years.

W. Armstrong Price was born March 27, 1889, in Richmond, Virginia. He graduated from Davidson College in North Carolina in 1909 with an A.B. degree and from Johns Hopkins University in 1913 with a Ph.D. degree in Geology. His thesis subject was The Pennsylvanian Inveriebrates of Maryland.

Between 1913 and 1919 he mapped lignites in Wyoming and North Dakota with the USGS; taught at the University of West Virginia; and served in the Army of the United States, honorably discharged in 1918.

Armstrong Price came to the Gulf Coast for the first time in 1920. Here he has remained. His first Gulf Coast assignment was to map surface geology in the Panuco area of northeast Mexico for the Transcontinental Oil Co., a subsidiary of Standard Oil. In 1921 Dr. Price mapped the subsurface geology of Mexia field for the Humphries Oil Co. and, for a short time, assisted Alexander Deussen in Houston. In 1924 Dr. Price returned to Mexico as a consultant, and in 1927 he moved to Corpus Christi where he consulted on the subsurface geology of Saxet and White Point fields.

In 1933 he was Vice-President, in 1936 President, and until 1946 a Director of the Texas Academy of Science. He helped to organize the Corpus Christi Geological Society in 1942 and served as its first President.

From 1947 until 1949 Dr. Price was retained by Humble Oil & Refining Co. (now Exxon Company, U.S.A.) to study Pleistocene and Recent sedimentation on the Texas Gulf Coast.

Armstrong Price left Corpus Christi in 1950 to teach Geological Oceanography at Texas A&M for four years. After his retirement he continued at Texas A&M for an additional year as a Research Associate with the Office of Naval Research. He taught the first course in Marine Geology at the University of Corpus Christi.

Since his return to Corpus Christi in 1954, Armstrong Price has continued as an active consulting geologist and contributor to the well-being of the Corpus Christi community.

Dr. Price was recognized by the GCAGS for presenting one of the best papers at the convention of 1967; he was a recipient of the SEPM, Francis P. Shepard Award in 1973. He is the author of more than 150 technical papers and innumerable abstracts.

The Gulf Coast Association of Geological Societies is proud to acknowledge the service of Dr. W. Armstrong Price, Gulf Coast geologist, teacher, and citizen.

H. O. Wyneken
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On behalf of the Corpus Christi Geological Society, welcome to the thirty-first annual meeting of the GCAGS. We hope that you will enjoy both the convention and your stay in Corpus Christi. Our General Chairman, Wilson Humphrey, and scores of committee chairmen and committee members have worked diligently to make this an excellent convention. My thanks to each of them for their dedicated effort.

Our association, which consists of twelve societies, has a membership of over 9,000 and continues to be the largest Section of the American Association of Petroleum Geologists. A Long-Range Planning Committee has been established to help meet and solve the problems and challenges encountered by this large and rapidly expanding membership.

During the past year your Executive Committee endeavored to operate the GCAGS in an efficient and effective manner. As a result, I am pleased to report that the organization is in excellent financial condition. Our thanks to Bill Tucker and his Financial Committee for another year of expertly managing the Association's funds.

One of the most important functions of the GCAGS is the dissemination of technical and scientific papers on Gulf Coast geology. This function continues under the expert guidance of Robert Boyer and his Publication Committee.

Our Student Aid program, chaired by Ed Roy, has been well received. This year the program was expanded and research grants totaling $10,000 were made available to fifteen geology majors attending universities located in the Gulf Coast area. Another excellent and timely project supported by the Association is the AAPG Tectonic Map Project, to which the GCAGS is contributing $10,000 over a five-year period.

In summary, I thank the Executive Committee, our Past President Frank Harrison, Jr., and Regional AAPG Councillor M.O. Turner for their help and cooperation during the past year. Their counsel helped make my tenure as your president most enjoyable.

Paul M. Strunk
President
Gulf Coast Association of Geological Societies
REPORT OF THE GENERAL CHAIRMAN
THIRTY-FIRST ANNUAL MEETING — 1981

Wilson Humphrey

On behalf of the Corpus Christi Geological Society and the City of Corpus Christi, it is my pleasure to welcome you to this convention and to our fine city. Our people have been looking forward to your visit for many months.

About two years ago we began planning this meeting. Chairmen for the various committees were selected, and they started working immediately to make this a successful affair. Their efforts have been fruitful.

Our program co-chairmen and field trip chairman have assembled a technical program that we hope will leave you better informed. The technical program is complemented by an excellent group of exhibits for your further education.

Numerous entertainment events have been scheduled for your enjoyment. These include an icebreaker cocktail party; a dinner dance; and various ladies' activities, such as a hospitality room, a luncheon, a Mexico shopping tour, and a tour of the Rockport area.

We thank the many contributors and advertisers who have generously supported this meeting. It would not be possible to hold a GCAGS meeting without their assistance.

As you read your Transactions, please note the list of committee members who organized and worked long hours for this meeting. They are the people who have made this meeting a success. I am proud to have worked with such dedicated friends, and I thank them for their diligence.

We sincerely hope that this thirty-first meeting will be an enjoyable experience for you, and that we who planned and worked have made some contribution to our profession.

Wilson Humphrey
General Chairman
REPORT OF THE TRANSACTIONS EDITOR

Carlos M. Maggio

This year, as in the past three decades, some of the best papers on Gulf Coast geology have been published in the Transactions. Only by hard work of the authors and committee members was this possible. The Transactions is one of the few geological publications that gathers useful, practical, and exclusively Gulf Coast papers from a good blend of industry and academia. It is hoped that one or more papers will be useful to all who depend on the Transactions.

The spirit of involvement and cooperation among committees has been most gratifying. Messrs. Fred Thompson and Robert Valerius (GCAGS) and Arnold Bouna (GCS-SEPM) are to be commended for their successful soliciting of papers for the technical sessions. Special thanks are given to the Advertising, Printing, and Registration Committees. Appreciation is expressed to members of the Editorial Committee, who willingly agreed to serve on this time-consuming task. Special, sincere appreciation is given to my wife Dorothy, and to Jo Anne Russell, associate editors, who prevented the editor from becoming an ulcer statistic. Steven D. Meyers, 1980 Transactions Editor, is gratefully acknowledged; his advice and suggestions proved to be an invaluable help. The Golden Banner Press, especially Patry del Bosque, provided appreciated advice, skillful work, and unlimited cooperation to produce a professionally printed Transactions.

Robert G. Loucks served as the capable editor of the GCS-SEPM manuscripts included in this volume. His cooperation from distant Tulsa is appreciated.

The GCAGS—GCS-SEPM is again indebted to H. O. Wyneken for this year’s Transaction cover, which he designed and artistically prepared. Hank’s talented art work enhances the covers of the 1964 and 1972 Transactions, the 1972 GCAGS Padre Island Guidebook, and many past Corpus Christi Geological Society Bulletins and Coastal Bend Geophysical Society Bulletins.

Acknowledgment is gratefully extended to Border Exploration Company for providing miscellaneous support in the form of long-distance telephone calls, mailing costs, editing supplies, reproduction services, and necessary secretarial support. Mrs. Mogie Dolan deserves special thanks for willingly doing much of the editorial typing, message taking, and mailing involved.

Lastly, but most importantly, the authors are sincerely thanked for preparing and submitting their papers. Perhaps the greatest benefit to the editor was the conversation and interchange held with many authors who, without exception, cooperated to the fullest within a short time frame. It is hoped that these associations and acquaintances will be lasting.

Carlos M. Maggio
1981 Transactions Editor
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GULF COAST ASSOCIATION OF GEOLOGICAL SOCIETIES
BEST PAPER AWARDS, THIRTIETH ANNUAL MEETING
LAFAYETTE, LOUISIANA

THE FIRST PLACE and the A. I. Levorsen Memorial Award were awarded to Ernest A. Mancini and D. Joe Benson for their paper entitled "Regional Stratigraphy Of Upper Jurassic Smackover Carbonates Of Southwest Alabama."

Ernest A. Mancini is a Gulf coastal plain stratigrapher specializing in biostratigraphy, paleoenvironments, and petroleum geology. He was educated at Albright College, Reading, Pennsylvania (B.S., Biology, 1969); Southern Illinois University (M.S., Zoology, 1972); and Texas A&M University (Ph.D., Geology, 1974). He was employed as an exploration geologist by Cities Service Oil Company from 1974 to 1976; his work stressed depositional environments and stratigraphy of Cretaceous and Tertiary sediments of the Alaska Peninsula and Bering Sea areas. Mancini joined the faculty of the Department of Geology and Geography at the University of Alabama in 1976 and became an Associate Professor in 1979. He teaches graduate courses in paleoecology, biostratigraphy, biogeology, micropaleontology, and petroleum geology. Mancini is listed in American Men and Women of Science and Who's Who in Technology Today; he is a member of Phi Kappa Phi, Sigma Xi, Phi Sigma, the Society of Economic Paleontologists and Mineralogists, the American Association of Petroleum Geologists, the Alabama Geological Society (Past President), and the Gulf Coast Section of the Society of Economic Paleontologists and Mineralogists.

D. Joe Benson is a sedimentary petrologist and sedimentologist specializing in carbonate environments and diagenesis. He received his B.A. degree in Geology from the College of Wooster and his M.S. and Ph.D. degrees from the University of Cincinnati. He was employed as a research geologist by the Ohio Geological Survey from 1973 to 1978 and joined the Department of Geology and Geography at the University of Alabama in the fall of 1978. Benson teaches graduate-level courses in carbonate and clastic sedimentary petrology, sedimentology, and Recent carbonate environments of the Florida Keys. His research includes studies of depositional environments and diagenesis of Ordovician, Mississippian, and Jurassic carbonates; and Carboniferous clastics in Alabama, secondary porosity in sandstones, and porosity reduction due to ductile grain deformation in sandstones. Benson is a member of the Society of Economic Paleontologists and Mineralogists, the American Association of Petroleum Geologists, the Society of Sigma Xi, the Alabama Geological Society, and the Gulf Coast Section of the Society of Economic Paleontologists and Mineralogists.
SECOND PLACE was awarded to Frank W. Harrison, Jr., for his paper entitled “Louisiana Tuscaloosa Versus Southeast Texas Woodbine.”

Frank W. Harrison, Jr., received his B.S. degree in Petroleum Geology from Louisiana State University in 1950. After two years of military duty in the U.S. Army, he returned to work in Louisiana and Mississippi for Union Producing Company, Seaboard Oil Company, Trans-Tex Drilling Company, and American Natural Gas Production Company. Since 1959, he has been in Lafayette as an Independent and Consulting Geologist. Harrison has been active in a number of local and national professional organizations throughout his career. He is the Past President of the Gulf Coast Association of Geological Societies and currently serves as President-Elect of the American Association of Petroleum Geologists.

THIRD PLACE was awarded to Glen M. Gatenby for his paper entitled “Exploration Ramifications Of Subsurface Fluid Migrations In The Lake Borgne-Valentine Of Southeastern Louisiana.”

Glen M. Gatenby was born in Toronto, Canada. He received his B.S. (1976) and M.S. (1979) degrees in Geology from Louisiana State University. He spent two years working for Union Oil of Canada, principally in the overthrust belt. In 1981, he transferred to Union Oil of California and is presently in Lafayette exploring in southwestern Louisiana. He is a member of the American Association of Petroleum Geologists and the Lafayette Geological Society.
CONSTITUTION AND BYLAWS
GULF COAST ASSOCIATION OF GEOLOGICAL SOCIETIES

ARTICLE I — Name
This is a non-profit organization and shall be known as the "Gulf Coast Association of Geological Societies." It is hereinafter referred to as "This Association."

ARTICLE II — Object
The object of This Association is to provide for discussion and publication of papers on subjects and problems coming within the scope of the Geological profession and with particular emphasis on Gulf Coast geology.

ARTICLE III — Organization
This Association is an organization of AAPG-affiliated Geological Societies in the Gulf Coast Area.

SECTION 1.
The business of This Association shall be transacted by an Executive Committee composed of one representative from each member society and the President, Vice-President, Secretary, Treasurer, and Past President. The Secretary and Treasurer shall be non-voting members of the Executive Committee. The Vice-President, Secretary, and Treasurer shall be elected by the Executive Committee at the annual meeting. The Secretary and Treasurer shall be nominated by the Executive Committee of the local Geological Society next in line to host the annual meeting. The Vice-President shall be nominated by the Executive Committee of the host society for the annual meeting two years hence and shall accede to the Presidency. Thus each year the President, Secretary and Treasurer will be from the host society with the Vice-President providing continuity with the Executive Committee as he assumes the Presidency in the ensuing year. The duties of these officers shall be those customary to their respective offices. The GCAGS representative to the Advisory Council of the American Association of Petroleum Geologists shall be selected by the Executive Committee of GCAGS and shall be an ex officio, non-voting member of the GCAGS Executive Committee.
Each member society shall designate a representative to the Executive Committee and in the event the chosen representative cannot attend any given Executive Committee meeting, an alternate representative shall be appointed by the member society to attend and vote in the absence of the representative. The representative, when practicable, shall be an officer or past officer of the society he represents.
Each society shall have one vote on actions taken by the Executive Committee with the exception that the host society, the next annual host society and the immediate past host society will be entitled to two votes by virtue of their members holding the offices of President, Vice-President and Past President.
The officers of the Executive Committee shall be elected for a term of one year. They shall be elected and assume their duties as soon after the annual meeting of This Association as is practicable. Any vacancies shall be filled by the Executive Committee as provided above in Paragraph 1.

SECTION 2.
The business of This Association shall be conducted by the Executive Committee. A simple majority vote of the members present at meetings is required to effect decisions, except in those matters which require a greater majority, as set forth in the Constitution and Bylaws.
A quorum shall consist of more than one-half of the voting members of the Executive Committee.

ARTICLE IV — Meetings
There shall be an annual meeting of This Association, the time and place of which shall be determined by the Executive Committee.

ARTICLE V — Publications
There shall be an annual Transactions published by This Association, which shall contain papers presented at the annual meeting, and such other material as selected by the Executive Committee. The Executive Committee is authorized to have published additional bulletins, and other material which they feel will further the object of This Association.

ARTICLE VI — Funds
The funds of This Association shall be deposited in any national bank or Federally insured Savings and Loan Association selected by the Finance Committee, to the credit of This Association, or invested in U. S. Government Bonds at the discretion of the Finance Committee.
ARTICLE VII — Amendments
Amendments to this Constitution may be proposed by the Executive Committee, or by any two member societies. Proposed amendments shall be submitted to each of the member societies in writing. It shall require an affirmative vote of three-fourths of the member societies to ratify an amendment to this Constitution.

ARTICLE VIII — Later Affiliation
Non-member Geological Societies in the Gulf Coast Area which are affiliated with AAPG may petition the Executive Committee for membership and shall be accepted by an affirmative vote of three-fourths of the Executive Committee.

AMENDMENT I
Any member society may resign from This Association at any time by written notice to the Executive Committee. There shall be no obligation to transfer to such resigning society any portion of This Association's funds.

AMENDMENT II
This Association shall terminate at such time as a majority of the member societies shall so vote. Upon dissolution all funds and other property shall be divided equally among the member societies.

BYLAWS

I. COMMITTEES:
The President, with the approval of the Executive Committee, shall appoint the Annual Meeting Chairman, and the following permanent committees:

A. Publications
B. Advertising
C. Publicity

Appointment to these committees shall be for a term of one year.

1. Annual Meeting Chairman
The Annual Meeting Chairman shall direct the staging of the annual meeting, and shall have the authority to appoint such additional committees as he deems necessary.

2. Publications
The Publications Committee shall be responsible for obtaining papers for presentation at the annual meeting, and editing and publishing the annual Transactions. It shall endeavor to stimulate geologists in the Gulf Coast to prepare papers which can be collected and published in the Transactions, symposium or other form in order to further the object of This Association as set forth in Article II of the Constitution. This committee shall be composed of one member from each of the affiliated societies.

3. Advertising
The Advertising Committee shall be responsible for obtaining advertisements in the publications of This Association, as directed by the Executive Committee. This committee shall be composed of one member from each of the member societies.

4. Publicity
The Publicity Committee shall be responsible for obtaining maximum national and local publicity of the activities of This Association. Also it shall be the responsibility of this committee to stimulate interest and participation in association affairs. The Executive Committee shall function as the Publicity Committee.

The President, with the approval of the Executive Committee, may appoint such additional committees as are necessary to conduct the business of This Association.

II. TREASURER:
The Treasurer shall have the authority to issue checks against the Annual Meeting bank account of This Association on his sole signature, but in the event of his absence or incapacity to act, withdrawals or payments by checks may be made on the signature of the President during the continuance of the absence, or incapacity, of the Treasurer. In this event, the identity and authority of the President, and the circumstances relating to the absence or incapacity of the Treasurer shall be certified by the Executive Committee, if so required by the depository. The Treasurer shall submit a financial report on the Annual Meeting at each meeting of the Executive Committee and shall keep a set of books in accordance with good accounting practices. He shall submit the books of the Annual Meeting to the Finance Committee by March 1st following the Annual Meeting. The office of Treasurer shall be bonded as directed by the Executive Committee.
III. FINANCE COMMITTEE:

The Finance Committee shall be responsible for investing and managing the funds of the Association. They shall be responsible for advancing to the Treasurer the necessary funds for operating the Annual Meeting and shall disburse funds for expenses and projects not related to the Annual Meeting as directed by the President upon approval by the Executive Committee. The Committee shall have authority to invest the funds as outlined in Article VI. They shall prepare a financial report on the Association's funds and submit it each meeting of the Executive Committee. They shall also keep an inventory and storage record of publications and equipment owned by the Association. They will keep a set of books in accordance with good accounting practices and will submit the books for auditing as requested by the Executive Committee. The Committee will oversee the preparation and submittal of the Association's Annual Income Tax Return. The Committee will also keep a file of these financial reports, as well as the report of the Treasurer for each Annual Meeting, for access by officers and representatives of the annual meetings of future years. The Committee shall consist of three members serving staggered three-year terms, such that each year one member will complete his term and a new member will be appointed in his place. The President of the Association, with the approval of the Executive Committee, shall appoint the members of the Finance Committee and they shall elect their own Chairman. Members of the Finance Committee shall be bonded as directed by the Executive Committee.

IV. These Bylaws may be amended by an affirmative vote of three-fourths of the Executive Committee.

V. There shall be no dues.
<table>
<thead>
<tr>
<th>YEAR</th>
<th>HOST SOCIETY</th>
<th>PRESIDENT</th>
<th>VICE-PRESIDENT</th>
<th>SECRETARY</th>
<th>TREASURER</th>
<th>CONVENTION CHAIRMAN</th>
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<tr>
<td>1951</td>
<td>New Orleans</td>
<td>L. Bowling</td>
<td></td>
<td></td>
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<td>E. M. Baysinger</td>
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<td>1952</td>
<td>Corpus Christi</td>
<td>W. M. Chaddick</td>
<td></td>
<td>J. S. Spencer</td>
<td></td>
<td>T. D. Barber</td>
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<td>1953</td>
<td>Shreveport</td>
<td>R. T. Wade</td>
<td></td>
<td>W. A. Peterson</td>
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<td>W. J. Nugent</td>
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<td>1954</td>
<td>Houston</td>
<td>W. R. Canada</td>
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<td></td>
<td>R. D. Sprague</td>
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<td>1955</td>
<td>Biloxi</td>
<td>A. E. Blanton</td>
<td>L. L. Traupe</td>
<td>F. H. Webster</td>
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<td>G. J. Joyce</td>
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<td>1957</td>
<td>New Orleans</td>
<td>H. N. Hickey</td>
<td>P. Montgomery</td>
<td>R. A. Davis</td>
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<td>R. C. Wilshusch</td>
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<td>1959</td>
<td>Houston</td>
<td>G. C. Hardin, Jr.</td>
<td></td>
<td>J. F. Moss</td>
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<td>A. E. Blanton</td>
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<td>1960</td>
<td>Biloxi</td>
<td>M. F. Kirby</td>
<td>D. N. Osburn</td>
<td>W. W. Woolfolk</td>
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<td>L. L. Palmer</td>
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<td>1961</td>
<td>San Antonio</td>
<td>D. Dassow</td>
<td>E. P. Roth</td>
<td>A. W. Wood</td>
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<td>L. H. Meltzer</td>
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<td>1963</td>
<td>Shreveport</td>
<td>J. C. Byrd</td>
<td>E. Knott</td>
<td>W. E. Bancroft</td>
<td></td>
<td>B. F. Dyer</td>
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<td>1966</td>
<td>Lafayette</td>
<td>A. M. Borland</td>
<td>J. H. Hensley</td>
<td>W. A. Robbins, Jr.</td>
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<td>L. C. Bryant</td>
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<td>1972</td>
<td>Corpus Christi</td>
<td>D. R. Boyd</td>
<td>F. M. Schall, Jr.</td>
<td>M. H. Oakes</td>
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<td>C. E. Harrison</td>
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<td>1977</td>
<td>Austin</td>
<td>R. E. Boyer</td>
<td>P. G. Gray</td>
<td>A. E. Bell</td>
<td></td>
<td>Jules Braunstein</td>
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<tr>
<td>1981</td>
<td>Corpus Christi</td>
<td>P. M. Strunk</td>
<td>J. J. Amoroso</td>
<td>T. J. Wintermute</td>
<td></td>
<td>Wilson Humphrey</td>
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</table>
Frank Lozo dedicated his professional career to stratigraphic studies of the Texas Lower Cretaceous. His contributions to the literature on the Lower Cretaceous are fundamental references for all subsequent workers. However, his most important contributions may lie, not in publications but, in the fact that through dedication and determination he stimulated and provided the opportunity for numerous young geologists to participate in the endeavor with him. That the combined efforts of all those has provided a regional stratigraphic framework for the Texas Lower Cretaceous of unparalleled detail and accuracy can be directly attributed to Frank Lozo.

Frank E. Lozo, Jr. was born and raised in Fort Worth, Texas, on the Washita outcrop. He attended Texas Christian University and received his bachelor’s degree in chemistry in 1935. He received a master’s degree in geology from T.C.U. in 1937 and the doctorate from Princeton in 1941. From 1939 to 1944 he taught geology at T.C.U., first as an instructor while completing his Ph.D. and later as an Assistant Professor. Through the same period he was employed most summers by either Gulf or Shell oil companies as a micropaleontologist. In 1944 he accepted a full-time position with Shell as Senior Geologist and then, in 1948, transferred to Shell Development Company as a Research Associate, remaining there until his retirement in 1971.

Frank was a student, friend, and colleague of such outstanding early Texas geologists as W.M. Winton, Gayle Scott, W.S. Adkins, H. B. Stenzel, Helen Jeanne Plummer, John R. Sendidge, and R. T. Hazzard. He developed a deep appreciation for the quality of their work and dedication and became a student on the history of Cretaceous investigations in Texas. He maintains that, if anything, his work represents an extension and development of ideas and investigations begun by those who came before. For example, he revived, extended, and promoted R. T. Hill’s original concept of Stratigraphic Divisions (regional lithostratigraphic unconformity bounded unites), so that these units are now used routinely by Texas Cretaceous stratigraphers.

In the fifties, Frank became involved with activities of the AAPG and served on the Research Committee (1954-56), Geologic Names and Correlation Committee (1955-56), Technical Programs Committee (1956), and was a member of the American Commission on Stratigraphic Nomenclature from 1959 to 1962. During this period he also edited and was a contributing author to the symposium on “The Woodbine and Adjacent Strata of the Waco Area of Central Texas” (1951), and contributed to the “Symposium on the Edwards Limestone in Central Texas” (1959). He is a charter member of the Gulf Coast Section of SEPM.

Prior to joining Shell in 1944, Frank directed much of his research effort to foraminifera biostratigraphic studies. Later, after joining Shell Development Company, he set up a project to study broader aspects of Lower Cretaceous geology, and for the next 23 years he and his co-workers studied the Lower Cretaceous intensively from southern Oklahoma to Trans-Pecos, Texas, and into northern Mexico. In addition to refining the stratigraphy, these studies provided ancient carbonate rock analogs for comparison with modern studies carried out at that time by R.N. Ginsburg and associates in Florida and the Bahamas. Shell Training Division still uses these studies in their classes on carbonates.

Since retirement, Frank has been able to pursue his long-term avocation of genealogy and devote much time to his hobby of restoring classic cars. He still follows and will continue to follow and encourage studies of the Lower Cretaceous. Those of us who owe him so much will continue to extend his ideas and investigations, mindful of the foundation upon which we build.
GULF COAST SECTION
SOCIETY OF ECONOMIC PALEONTOLOGISTS AND MINERALOGISTS

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Field Trip Leaders: Robert A. Morton, Bureau of Economic Geology, The University of Texas at Austin, Austin, Texas 78712
Dag Nummedal, Department of Geology, Louisiana State University, Baton Rouge, Louisiana 70893

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Mary Ann Rafie, Shell Oil Company, Houston, Texas
Ernest E. Russell, Department of Geology and Geography, Mississippi State University, Mississippi
Arthur S. Waterman, Paleo-Data Inc., New Orleans, Louisiana

HONORARY MEMBERS
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Jules Braunstein
Doris M. Curtis
Hedwig T. Kraker
Stuart A. Levinson
Frank E. Lozo, Jr.
Grover E. Murray
William R. Paine
John R. Sandidge
Fred L. Smith, Jr.
Charles W. Stuckey
Lyman D. Toulmin
REPORT OF THE PRESIDENT
GULF COAST SECTION
SOCIETY OF ECONOMIC PALEONTOLOGISTS AND MINERALOGISTS
1981

Bob F. Perkins

The Gulf Coast Section of the Society of Economic Paleontologists and Mineralogists was established over 25 years ago for the purpose of promoting "the science of stratigraphy in the Gulf Coast states through research in paleontology and sedimentary petrology, especially as it relates to petroleum geology." Since its inception in 1953, the GCS-SEPM has fostered the science of stratigraphy in the Gulf Coast region through sponsorship of field trips, annual professional meetings in cooperation with the Gulf Coast Association of Geological Societies, and publication of field guides and special research reports. As the search for oil and gas intensifies during the 80's, the value of stratigraphic research will be increasingly amplified and the role of the GCS-SEPM, in the promotion of the substantive stratigraphic research essential to successful exploration efforts throughout the Gulf Coast region, should be efficiently and effectively organized and supported for the benefit of the profession, the petroleum industry, and the regional and national economy.

Two important events of the past year herald the beginning of an increased level of support of research activities by the GCS-SEPM: the initiation of the Annual Research Conference series and the establishment of the GCS-SEPM Foundation. These two events constitute an ambitious renewal of the Section's commitment to the encouragement of the exchange of information and ideas and to the stimulation and support of research in Gulf Coast stratigraphy.

Gene B. Martin conceived the idea of a GCS-SEPM-sponsored research conference, and under his leadership the First Annual Research Conference, entitled the Geology of the Woodbine and Tuscaloosa Formations, was held in Houston in December, 1980. Eighteen very excellent papers and two core workshops were presented at the conference, and participation was fully subscribed with over 300 registrants. Marc B. Edwards and the Second Annual Research Conference Program Advisory Committee, of which he is chairman, have planned an equally informative and stimulating program of papers and workshops dealing with the Recognition of Shallow-Water versus Deep-Water Sedimentary Facies in Growth-Structure-Affected Formations of the Gulf Coast Basin for the second research conference to be held in Dallas November 29 through December 2, 1981. The GCS-SEPM Annual Research Conference series has been generously and extensively supported by individuals and industry.

The GCS-SEPM Foundation was established in 1981 as a trust for the sponsorship of research and research-related activities, including research grants, seminars, conferences, symposia, publications, and programs of continuing education in stratigraphy and the related sciences of paleontology and sedimentary petrology. The GCS-SEPM Foundation will provide for all these activities tax-exempt sponsorship and other research funding opportunities on a scale not available to the Section itself.

I wish to express my appreciation to all the Section officers, to Arnold Bouma and other members of the 1981 Convention Committee, to the members of the Field Trip Committee, to the Business Representatives, and to the members of the First and Second Annual Research Conference Committees for their outstanding efforts toward making this past year such a fruitful and significant period for the Section.

I am especially grateful to the members of the GCS-SEPM for extending to me the opportunity to serve as Section President. The very cooperative attitude of the members and the spirit of accomplishment for the benefit of the Section and the profession that I have encountered at every turn have been exceptionally rewarding. Thank you for the honor of having elected me to the office of President.

Bob F. Perkins
President GCS-SEPM
FIRST PLACE was awarded to Arthur W. Cleaves for his paper entitled "Depositional Systems And Lignite Prospecting Models: Wilcox Group And Meridian Sandstone Of Northern Mississippi."

Arthur W. Cleaves received his B.S. degree in Geology from Brown University in 1967 and his graduate degrees from the University of Texas at Austin in 1971 and 1975. He has been employed as a Research Scientist Associate with the Texas Bureau of Economic Geology (1976) and as an Assistant Professor of Geology at Wayne State University (1975) and the University of Mississippi (1976-1979). He is presently a Research Assistant Professor with the Mississippi Mineral Resources Institute. Cleaves is a member of the American Association of Petroleum Geologists, the Geological Society of America, the Society of Economic Paleontologists and Mineralogists, the Mississippi Geological Society, and the Association for the Advancement of Science. His current research projects include: 1) an assessment of Wilcox-Meridian depositional systems and lignite resources in Mississippi, Alabama, and Tennessee; and 2) regional stratigraphy of Carboniferous rock units in the Black Warrior Basin.

SECOND PLACE was awarded to Ivor L. van Heerden and Harry H. Roberts for their paper entitled "The Atchafalaya Delta - Louisiana’s New Prograding Coast."

Ivor Llewellyn van Heerden completed his military service in 1969 with the Corps of Engineers, South African Defence Force, where he trained as a land surveyor. He received his B.S. degree in Geology in 1975, and in 1976 he obtained his B.S. Honours degree in Sedimentary Geology. Both degrees were awarded at the University of Natal, Pietermaritzburg, South Africa. Graduate studies were started at Louisiana State University in 1977, and in 1980 he obtained his M.S. degree for work in the Atchafalaya Delta. Currently, he is involved in a Ph.D. program in the Department of Marine Sciences at Louisiana State University. The dissertation is an extension of his Masters’ work in the Atchafalaya Delta. His graduate studies are supported partially by funding from the Ernest Oppenheimer Memorial Trust Fund, Johannesburg, South Africa. Other coastal interests include beach, estuarine, and nearshore dynamics and sedimentation. An extension of these interests is the interpretation of similar environments as they are preserved in the geological record.
Harry H. Roberts received his B.S. degree in Physics (1963) from Marshall University in Huntington, West Virginia, and M.S. (1966) and Ph.D. (1969) degrees in Geology from Louisiana State University. He joined the Coastal Studies Institute in 1968 and advanced to the rank of Professor in 1978. Since 1968, he has been formulating and conducting field-oriented research projects in carbonate and terrigenous settings. These studies relate to a wide variety of coastal and shelf problems, including physical processes, sedimentation, and geomorphology. Field investigations have been conducted domestically and along a variety of foreign coasts, including Grand Cayman, Barbados, Nicaragua, Brazil, Oman, Egypt, and St. Croix. In addition, he has been active as a consultant to the oil industry on problems of geological hazards, sedimentation, and high-resolution geophysical data interpretation. He has worked for engineering firms and consulting agencies on problems of coastal sedimentation and sediment stability. Commonly, in conjunction with other members of the Coastal Studies Institute, he has taught applied geology short courses on deltas and carbonate environments. Roberts has authored or co-authored more than fifty professional papers and technical reports on basic and applied coastal geoscience. He has presented a number of invited lectures domestically and in foreign countries.

THIRD PLACE was awarded to Thor A. Hansen for his paper entitled "The Biostratigraphic Significance Of Fossil Molluscan Larvae."

Thor A. Hansen received his B.S. degree in Geology from George Washington University in 1974 and his Ph.D. in Geology from Yale University in 1978. Since 1978, he has been an Assistant Professor at the University of Texas at Austin and Associate Curator of Cenozoic Marine Invertebrates at the Texas Memorial Museum. He teaches courses in historical geology, stratigraphy, paleoecology, and a six-week-summer field course. His research interests center on the Tertiary stratigraphy and paleontology of the Gulf Coast with special emphasis on the evolutionary patterns and paleoecology of molluscs.
BYLAWS
OF
GULF COAST SECTION OF
THE SOCIETY OF ECONOMIC
PALEONTOLOGISTS AND MINERALOGISTS

ARTICLE 1.
OBJECT

1.01 The object of the Gulf Coast Section of the Society of Economic Paleontologists and Mineralogists is to promote the science of stratigraphy in the Gulf Coast states through research in paleontology and sedimentary petrology, especially as it relates to petroleum geology. The Corporation, herein referred to as the "Section", will be closely associated with the Gulf Coast Association of Geological Societies and will cooperate with it and with the local geological societies of which it is composed for the furtherance of mutual objectives.

ARTICLE 2.
MEMBERS

2.01 The Section shall have members, associate members, charter members, and honorary members.

2.02 Members shall be persons engaged in paleontologic, petrographic or stratigraphic studies that have application to the geology of petroleum who are members or associate members of the Society of Economic Paleontologists and Mineralogists and who work or reside in the Gulf Coast province of the states of Texas, Louisiana, Mississippi, Alabama, Georgia, or Florida, or whose interest or work is principally within these states. Membership, once obtained, shall not be dependent upon continued residence in the aforementioned states.

2.03 Associate members shall be persons engaged in paleontologic, petrographic or stratigraphic studies that have application to the geology of petroleum, who work or reside in the Gulf Coast province of the above mentioned states, and who are not members or associate members of the Society of Economic Paleontologists and Mineralogists. Associates shall enjoy all the privileges of membership, save that they shall not hold office. Election to membership in the Society of Economic Paleontologists and Mineralogists will automatically advance associates to members.

2.04 Charter members are those whose applications for membership were received before the first nomination of officers. They shall enjoy all the privileges of members and, hereinafter, are included in all references to "members."

2.05 The Council may elect as honorary members persons who have contributed distinguished service to the science of stratigraphy, paleontology or sedimentary petrology, especially as they relate to petroleum geology in the Gulf Coast. Honorary members shall not be required to pay dues.

2.06 Each candidate for membership shall submit to the Secretary an application on a form authorized by the Council for this purpose.

2.07 New members and associates enrolled after September 15 shall be considered as having paid their dues for the next calendar year.

ARTICLE 3.
COUNCIL AND OFFICERS

3.01 Executive authority of the corporation is vested in a board of directors known as the "Council" consisting of six members who are officers duly elected by the members, as follows: President, President-Elect, Vice-President, Secretary, Treasurer, and the most recently retired Past President.

3.02 The President shall discharge the usual duties of a president, as well as act as presiding officer at all meetings of the Section and Council. He shall appoint an Editor, Program Chairman, Committee Chairmen and Business Representatives.

3.03 The Vice-President shall assume the duties of the President in the case of the absence or disability of the latter. He shall also be Chairman of the Membership Committee and Chairman of the Employment Counseling Committee.

3.04 The Secretary shall keep records of the proceedings of the Section and a complete list of the membership. He shall attend to the preparation and mailing of notices, membership application blanks and other materials necessary to the business of the Section.

3.05 The Treasurer shall have custody of all funds of the Section. He shall keep account of the receipts and disbursements, and submit his account to the membership at the end of each year.

3.06 The Council shall consider all candidates for membership and pass on the qualifications of the applicants; shall have control and management of the affairs and funds of the Section; shall designate the time and place of the Annual Meeting.

3.07 The President and Vice-President shall not serve for more than one (1) year, except that if the Vice-President succeeds to the position of acting President, he may be elected to a full term as President.

3.08 In the event that neither the President nor Vice-President is available to serve as presiding officer of the Section, the immediate Past President shall assume the President's duties.
3.09 The President-Elect shall serve for one (1) year as such, and in the following year he shall assume the office of President. He shall have no administrative authority except as a member of the Council. He shall acquaint himself with all the details of the office of President and generally prepare himself to serve as President. He shall be responsible for the preparation of the annual meeting for the ensuing year.

3.10 A vacancy occurring in the offices of Vice-President, Secretary or Treasurer shall be filled by Council appointment.

3.11 A vacancy occurring in the office of President-Elect shall be filled by mail ballot by the membership through a special election called by the Council.

ARTICLE 4.
MEETINGS OF MEMBERS

4.01 The Section shall hold at least one stated meeting each year, which shall be known as the Annual Meeting. This meeting will usually be held in conjunction with the Annual Meeting of the Gulf Coast Association of Geological Societies.

4.02 The program for the Annual Meeting shall be arranged by the Program Chairman in conjunction with the Chairman designated by the Gulf Coast Association of Geological Societies to arrange for its own program. In general, it will be desirable that the contributions from members of the Section be included in the main program rather than being allotted to a separate session.

4.03 At the time of the Annual Meeting, a Business Meeting shall be held for the transaction of Section business.

ARTICLE 5.
AMENDMENT OF BYLAWS

5.01 These Bylaws may be amended by a two-thirds vote of returned mail ballots received by the Secretary sixty (60) days after proposal of amendments with provision for vote is mailed to the members. Any proposed amendments must have the approval of a majority of the Council before being submitted to the members.

5.02 A petition containing the signatures of twenty (20) active members is considered sufficient to bring before the Council a proposed change in the Bylaws. A majority vote of the Council is also considered sufficient to initiate a proposed change.

ARTICLE 6.
DUES

6.01 The fiscal year of the Section shall commence on October 1 and expire on September 30 of the following year.

6.02 The annual dues of the members and associates of the Section shall be four dollars ($4.00). Penalty of fifty cents (.50) shall be assessed for late payment of dues. The fifty cents (.50) late penalty shall be waived upon payment of dues for two or more years.

6.03 A bill for dues shall be mailed to each member and associate before January 1 of each year. Members and Associates who have not paid their annual dues by April 1 shall be dropped from the membership rolls.

6.04 Members and Associates dropped for non-payment of dues may apply to the Council for reinstatement and be reinstated by majority vote of the Council.

6.05 Members or Associates may, at their discretion, pay their annual dues in advance for periods of up to five (5) years.

ARTICLE 7.
FINANCIAL PROCEDURE

7.01 No officer or member shall enter into any contract or disburse any of the Section's funds without the co-signature of a member of the Council. Disburse of a sum in excess of Five Hundred Dollars ($500.00) must be approved by a majority of the Council.

ARTICLE 8.
ELECTIONS

8.01 The President shall appoint two (2) nominating committees, instructing each committee to submit nominations for President-Elect, Vice-President, Secretary, and Treasurer. These nominations shall be in the Secretary's hands before July 15. If desired, the same person may be nominated by the two committees for the offices of Secretary and Treasurer, but the nominations of the first committee to file its report will have precedence in case of overlapping nominations, and the other committee shall then be requested to change its nomination. A candidate for office must be an active member and reside in the Gulf Coast at the time of his nomination.

8.02 Ballots containing the nominations for officers, arranged alphabetically under each office, shall be prepared by the Secretary and mailed to each member of the Section on or before July 15. The ballots received by the secretary before September 15 shall be counted by him. Receipt of a plurality of the votes cast for any office shall constitute election. In case of a tie vote, members of the Council shall cast one additional deciding vote.

8.03 Results of balloting shall be announced at the Annual Meeting, and the new officers shall enter upon duty at the adjournment of the Meeting.
ARTICLE 9.

PUBLICATIONS

9.01 The Section editor, appointed by the President, shall actively solicit papers from the Section membership for presentation at the Annual Meeting. He shall cooperate with the editor of the Gulf Coast Association of Geological Societies' annual TRANSACTIONS volume in preparing papers delivered at the meeting for publication in this volume. He shall cooperate with the editors of the Society of Economic Paleontologists and Mineralogists' journals by helping to arrange for publication in these periodicals of suitable papers which come to his attention.

9.02 Members of the section may purchase one copy of each Section publication at a discount of 20 percent off the advertised price.

ARTICLE 10.

BUSINESS REPRESENTATIVES

10.01 The President shall appoint one representative from each group of members in each local geological society affiliated with the Gulf Coast Association of Geological Societies and in other localities as needed. Each representative shall have an up-to-date list of the members residing in his vicinity. He will notify these members concerning any matters of Section policy which may be relayed to him by the President and shall have the authority to convene a meeting of these members to determine their views concerning Section affairs. He will report the results of such meetings to the President of the Section. He will cooperate with the Section editor in the soliciting of papers to be presented at the Annual Meeting and with the Chairman of the Membership Committee in recruiting new members for the Section.

ARTICLE 11.

AUDIT

11.01 The President shall appoint an Auditing Committee which shall review the accounts presented by Treasurer. The approval of the Treasurer's books by this committee shall be required before his final report will be accepted. The Treasurer may submit a provisional report at the Annual Meeting, and his final audit shall be accomplished not later than 30 days thereafter.


The Section was incorporated under the laws of the State of Texas in 1981, and these Bylaws were adopted at that time in place of the original Constitution and its amendments.

These Bylaws embody all of the provisions of the original Constitution and its amendments.

XXVIII
# Gulf Coast Section — SEPM
## Past Officers

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# PUBLICATIONS

OF THE

GULF COAST ASSOCIATION OF GEOLOGICAL SOCIETIES

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<td>Middle Eocene Coastal Plain and Nearshore Deposits of East Texas: A Field Guide to the Queen City Formation and Related Papers, 1980</td>
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