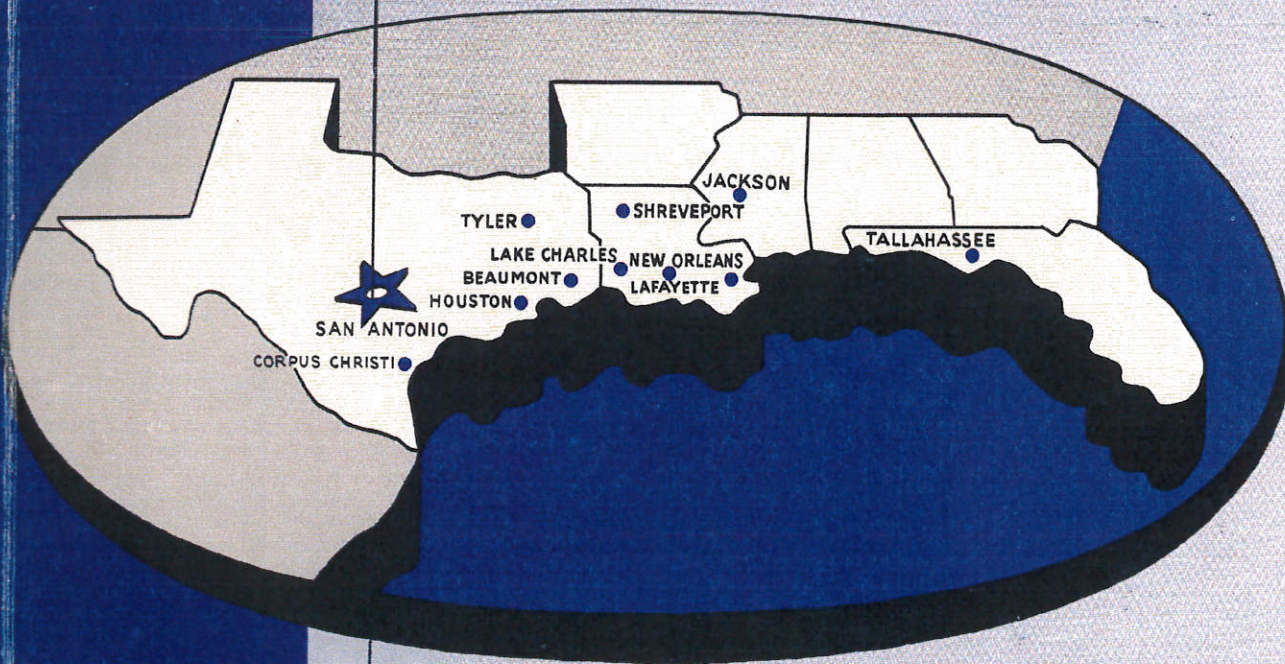


TRANSACTIONS

VOLUME XI

GULF COAST ASSOCIATION
OF GEOLOGICAL SOCIETIES



ANNUAL MEETING
SAN ANTONIO, TEXAS
OCTOBER 25, 26, 27, 1961



TRANSACTIONS

GULF COAST ASSOCIATION OF GEOLOGICAL SOCIETIES

VOLUME XI, 1961

Wm. H. Spice, Jr., Editor

prepared for the

ELEVENTH ANNUAL MEETING OF G. C. A. G. S.

and the

**1961 FALL REGIONAL MEETING OF THE
AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS**

with the co-operation of

**THE GULF COAST SECTION OF THE
SOCIETY OF ECONOMIC PALEONTOLOGISTS AND MINERALOGISTS**

OCTOBER TWENTY-FIFTH THROUGH TWENTY-SEVENTH, 1961

AT

**THE GRANADA HOTEL
SAN ANTONIO, TEXAS**

Published at San Antonio, Texas, October, 1961.

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GULF COAST ASSOCIATION OF GEOLOGICAL SOCIETIES

REPORT OF THE PRESIDENT

1961

The Gulf Coast Association of Geological Societies is celebrating its eleventh Anniversary in San Antonio, Texas. The theme for this year is "Resume of the Geological History of the Coastal Area."

The Executive Committee, consisting of representatives from each of the eleven Societies, met in San Antonio on June 19th and September 18th. The third and final meeting will be held in December. At that time officers of the Executive Committee for 1962 will be elected. The twelfth annual meeting will be held in New Orleans and \$500.00 has been advanced to the New Orleans Society to help defray expenses for the preparation of their convention.

The General Chairman of the convention this year, Mr. Leland Palmer, informs me that the high inventory of 1960 TRANSACTIONS has been reduced considerably. This has been a problem but thanks to an individual mailing program many have been sold with a net profit of approximately \$2,000.00 to the Association.

I wish to express my deep appreciation to the heads and the members of the convention committees for their leadership and energy in preparing for this annual meeting. Almost all of them are hard pressed for time so their generous efforts are appreciated both by the Executive Committee and myself.

The financial position of the Association as of September 1st was reported by E. L. Ames, Jr., Treasurer:

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GULF COAST ASSOCIATION OF GEOLOGICAL SOCIETIES

REPORT OF THE EDITOR

1961

Traditionally, or at least for the previous ten years, the editor of this volume reports to its readers his reactions on a truly thankless assignment, albeit a highly educational and instructive one, acknowledges with grateful thanks the unselfish assistance of those who have lightened his editorial burden, gently chides those who have not carried their weight and makes certain pertinent recommendations for future guidance. This report will be no exception.

Through no particular plan of the editor, since his task was solely an editorial one, the present volume presents an extremely diverse and balanced group of geologic papers ranging from rather broad regional subjects to detailed specific local phenomena. Herein is food in particular for the stratigrapher, the paleontologist, the geophysicist, the structurally-minded surface and subsurface geologist and for that large group in the profession who merely desire to increase their knowledge of a particular geologic province, formation or oil field. The timeliness of many of the papers within the framework of the areas covered by members of the associated societies should be particularly pointed out. Credit for the appearance of such papers in this volume must be given to this year's program chairman, the associate editors and, of course, the authors themselves.

The editor has not tried to rework all manuscripts into a given pattern or style, it being his thought that an author can best express himself and his ideas unhampered by unnecessarily strict ground rules. However, the editor has attempted to arrange all material into a convenient and readable form, making obvious or necessary corrections of punctuation, grammar, spelling and capitalization. Some authors undoubtedly will be pleasantly surprised at the way their papers appear in print in contrast to their appearance in manuscript form, the editor was. Others undoubtedly will be disappointed and will feel that their manuscripts should have turned out better in printed form. Such surprises are part of the editor's compensation and such disappointments are part of the thankless aspects of the job.

For the most part, the associate editors representing the member societies have given excellent cooperation and have worked tirelessly with their authors, where necessary, to the end that most of the manuscripts submitted were in readily useable form. Unfortunately, some few associate editors did nothing visible from this end and a few associated societies failed to even appoint an associate editor. Although fairly detailed suggestions to authors of prospective papers for this volume were sent out at an early date, several authors obviously failed to avail themselves of these suggestions. This was particularly the case in many of the original illustrations submitted which were not of the proper proportions or with the type of lettering which could be readily reproduced legibly within the size limits of the bound Transactions volume. For the guidance of future editors, the proper preparation of illustrations should be particularly stressed since this was one of the greatest headaches of the current volume.

As in the past several volumes, the papers from members of the Gulf Coast Section of S.E.P.M. have not been separated from the other papers but have been placed in what is believed to be their proper sequence in the overall general scheme of this volume. Thanks are due in particular to Mrs. Sybil Lightfoot, S.E.P.M. editor, who not only was most prompt with her papers but which were ably edited when submitted.

The editor finally, but no less sincerely, gratefully acknowledges the able assistance and cooperation of all members of the general committee for the eleventh annual meeting and, in particular, the general chairman, Leland L. Palmer, and the program chairman, Ed W. Owen. Also, to my secretary, Mrs. John R. Watson, go my warm thanks for considerable tedious stenographic work and typing. Lastly, to the authors, whose efforts have made this volume possible, my sincere appreciation for your contributions to geologic knowledge contained herein. The editor has himself benefited immeasurably by the widening of his geologic horizon in assembling in one volume such a diversity of geologic subjects.

Wm. H. Spice, Jr.

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REPORT OF PRESIDENT

1961

The Gulf Coast Section of the Society of Economic Paleontologists and Mineralogists has completed its eighth year. As in the past, we have cooperated with the Gulf Coast Association of Geological Societies and I believe it has been of mutual benefit. Our members have contributed several papers for this present meeting and have worked in conjunction with the officers and committees of the G.C.A.G.S.

The G.C.S. - S.E.P.M. has had close liason with the national S.E.P.M. and your president has accepted vice-chairmanship of the national meeting to be held in Houston in 1963. In connection with this meeting it is planned that the G.S.C. - S.E.P.M. will give two field trips and handle all field trip arrangements. Most of this work will be presided over by our standing field trip chairman, Charles Stuckey. S. A. Levinson will act as the local program chairman for the S.E.P.M. program at this national convention.

In connection with field trips, Mr. Stuckey, has already made arrangements for Dr. Lyman Toulmin to lead a trip to the Little Stave Creek exposures. This will be in conjunction with next year's G.C.A.G.S. meeting to be held in New Orleans. Mr. M. R. (Ray) Bane has agreed to act as administrative chairman.

On behalf of the members, I would like to congratulate our field trip committee of this year C. W. Stuckey, chairman; R. P. Zingula, Field trip leader; E. H. Rainwater and J. O. Collee. They published a fine guidebook, conducted a good field trip and in every way it was a success.

The second unit of the Gulf Coast Cenozoic and Mesozoic type localities is being edited and it is hoped they will be available for this annual meeting. We greatly appreciate the financial assistance we have received from the G.C.A.G.S. for this project.

No active membership drive has been conducted this year but we have received several new members.

The constitution of the G.C.S. - S.E.P.M. is in the process of being revised under the chairmanship of our past president, David E. Pope.

I wish to take this opportunity to thank all members who have assisted in making this a good year for the G.C.S. - S.E.P.M. My thanks in particular goes to the officers, business representatives, committeemen, and our editor.

C. M. QUIGLEY, JR.

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