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**Depositional
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In
Carbonate Rocks**

**Edited by:
Gerald M. Friedman**

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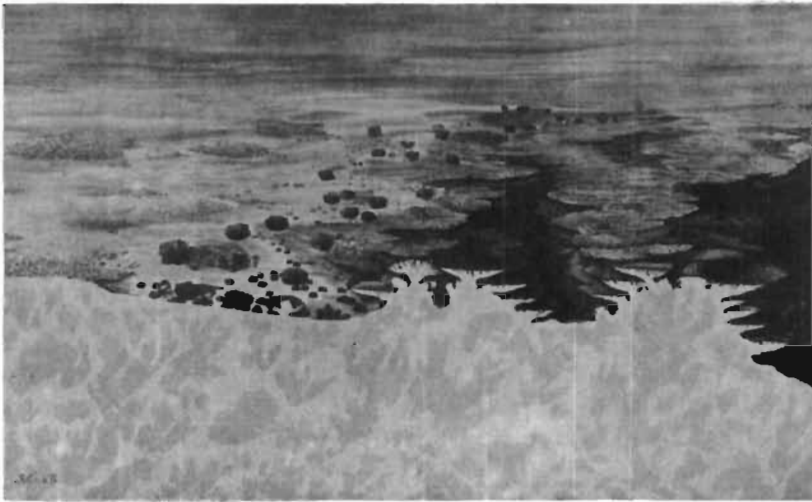
DEPOSITIONAL ENVIRONMENTS IN CARBONATE ROCKS

A Symposium

Edited by

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PREFACE

This volume is the third publication of a symposium organized by the Carbonate Rock Subcommittee of the Research Committee of the American Association of Petroleum Geologists. The first, edited by William E. Ham and published in 1962 dealt with the classification of carbonate rocks and is a milestone in the field of sedimentary geology. The second, edited by Lloyd C. Pray and Raymond C. Murray, was published in 1965 and dwelled on the topic of dolomitization and limestone diagenesis. This second symposium, like its eminent predecessor, will remain a classic in the field. The AAPG published the first symposium as its Memoir 1 and the SEPM published the second as its Special Publication 13.

The discussions of the Carbonate Rock Subcommittee, particularly in 1965 and 1966, brought out the need for a symposium on carbonate depositional environments. The emphasis was to be on criteria for recognition. Such a symposium was organized and held in Los Angeles, California, on April 13, 1967 at the Joint Meeting of the AAPG and SEPM. The program consisted of two half-day sessions and featured nine major papers. The need for such a symposium was highlighted by the large attendance at the technical sessions. The lecture room in which the morning session was held was filled to capacity with a large crowd standing in the back of the room. The presentation of the papers was at a high level and one of the contributors (Max Pitcher) received the coveted Matsen Award of the AAPG.

The present volume contains seven of the

nine papers; two others did not meet the deadline, but their abstracts are included. However, two papers are included which were not part of the original symposium. Both of these had been presented orally before and hence were not eligible to be given again. They are both prize winning papers; the Permian Basin section of the SEPM presented the Best Paper Award to Robert J. Dunham for these contributions in 1963 and in 1965.

Members of the Carbonate Rock Subcommittee requested that discussion be published with the papers. The requirement for publication of discussion was that members of the audience submit their questions in writing to the editor. The editor then submitted each question to the relevant author for comment. These questions and answers are published in this volume.

A one-day symposium or its published version can not do more than present a few highlights in a field in which research is very active. However the papers in this symposium represent a significant collection of information that should be useful to all of those interested in carbonate rocks.

The AAPG, under whose auspices this symposium was held, has given permission for publication of this volume. The Editor gratefully acknowledges the help of Syed Ali, of Rensselaer Polytechnic Institute, who prepared the index. Steven Ross of Rensselaer Polytechnic Institute prepared the manuscripts for the printer and corrected printer's proofs.

GERALD M. FRIEDMAN, *Editor*

ABOUT THE COVER

Part of a color lithograph from Johannes Walther's 1888 *Die Korallenriffe der Sinaihalbinsel* was adapted for the cover by Ronald Le Van and Gene Tobler of Rensselaer Polytechnic Institute's Office of Institutional Research. The complete lithograph, reproduced in black and white on the title page, shows ecologic zonation of a Recent reef near Ras Muhamed, along the Red Sea coast of the Sinai Peninsula.

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