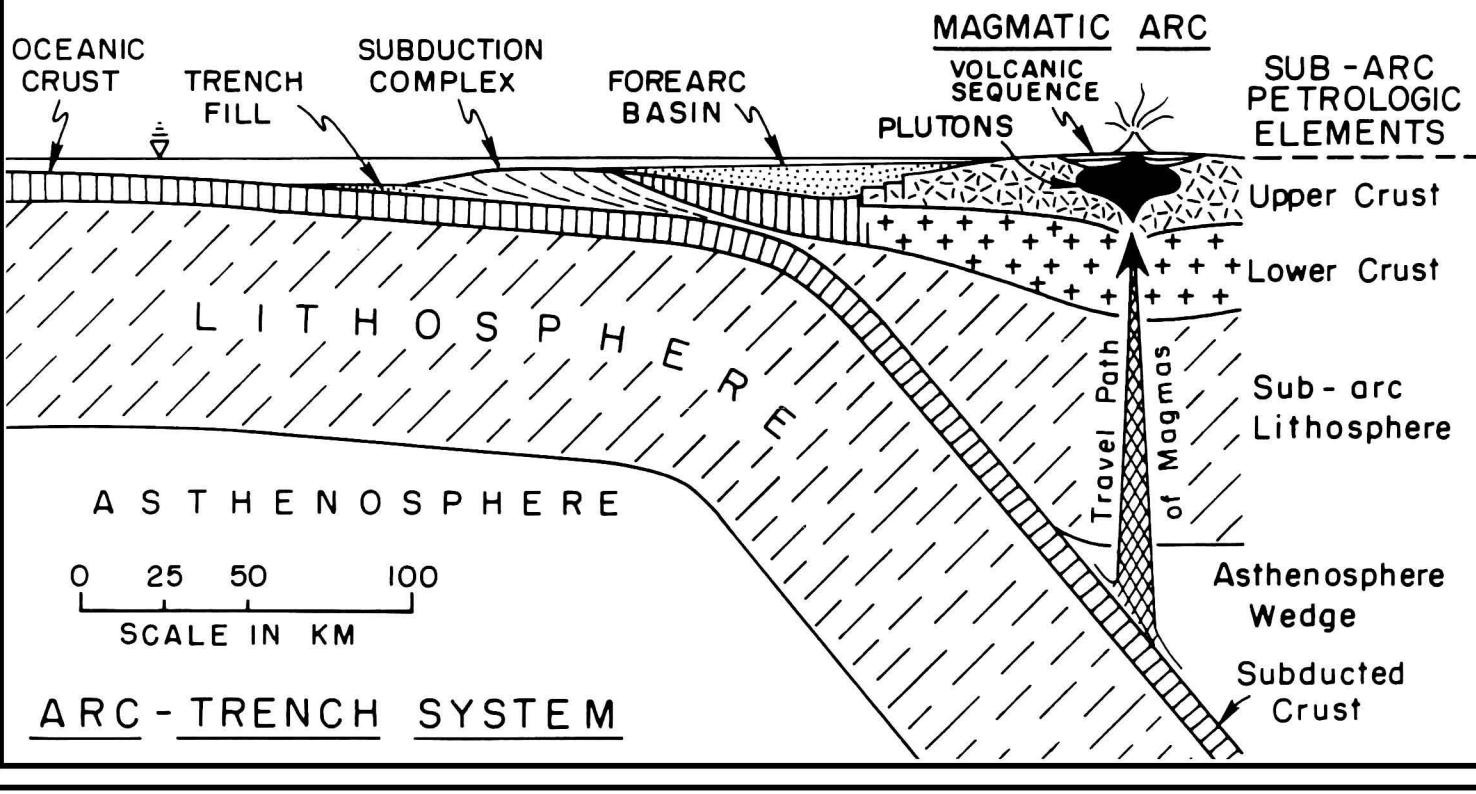


# Relations of Tectonics to Ore Deposits in the Southern Cordillera

Edited by  
William R. Dickinson & William D. Payne



ARIZONA GEOLOGICAL SOCIETY DIGEST VOLUME XIV

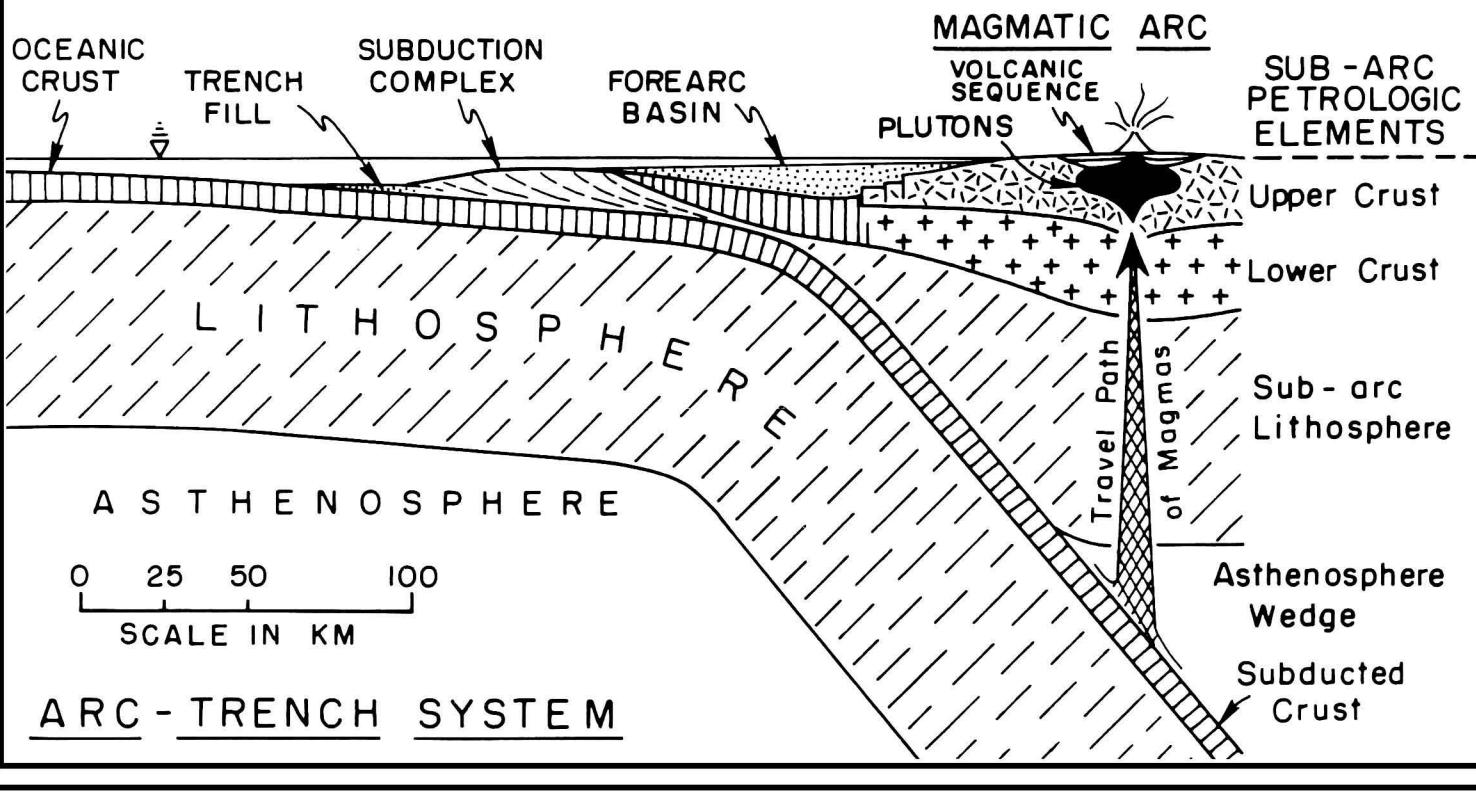
Tucson, Arizona

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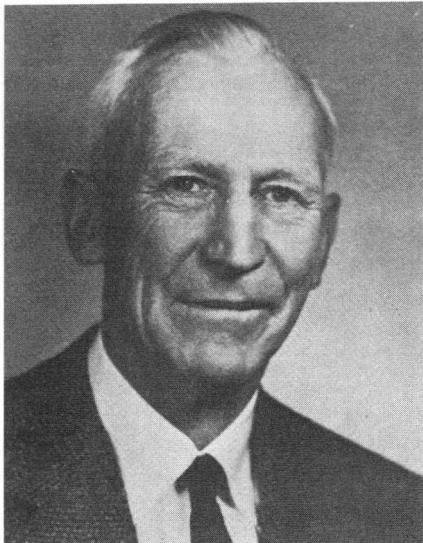
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IN MEMORY OF  
JAMES GILLULY  
1896 1980

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## FOREWORD

A symposium on the "Relations of Tectonics to Ore Deposits in the Southern Cordillera" was held at the University of Arizona in Tucson on March 19-20, 1981, with associated field trips on March 17-18 and 21-22. The symposium was sponsored by the Arizona Geological Society in conjunction with the Laboratory of Geotectonics in the Department of Geosciences at the University of Arizona. Approximately 1250 geoscientists attended the technical sessions, and nearly 700 went on the various field trips. This volume includes nearly all the papers presented.

The program was designed to provide discussion of a range of pertinent topics including the principles of Cordilleran tectonics and magmatism, general associations of ore deposits in Cordilleran settings, regional correlations of tectonic features, tectonic settings of different kinds of ore deposits, and the structural and metallogenetic relations of selected key ore deposits. The invited speakers were geoscientists from academia, government, and industry who together represent a wide spectrum of disciplinary backgrounds and personal interests.

This symposium is thus an attempt to foster a comprehensive approach to problems of Cordilleran metallogenesis. The future success of exploration programs probably hinges on the ability of geoscientists to develop integrated strategies that blend the best thinking from all relevant branches of science. Discoveries will not be accidental, and good fortune will seldom stem from luck alone.

The articles in this volume were submitted to the Arizona Geological Society in camera-ready form; authors are solely responsible for their contents. Thanks are due to all the typists and artists who prepared the text, drafted the figures, and pasted up the copy on the format pages.

The members of the Arizona Geological Society thank all symposium participants for their interest and support, without which this volume could not have been produced. Speakers and authors deserve a special salute for their timely efforts to submit final versions of the papers included here.

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The Digest is issued periodically by the Society as an informal bulletin intended to present technical papers and progress reports of research bearing on geological problems of Arizona in particular and the Southwest generally. The editors welcome such papers as well as notes and news of geological and related activities within this broad framework.

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Arizona Geological Society Digest, Volume 12 (1979), 322 pp. (Studies in Western Arizona)

Arizona Geological Society Digest, Volume 11 (1978), 178 pp. (Proceedings of the Porphyry Copper Symposium)

Arizona Geological Society Digest, Volume 10 (1976), 430 pp. (Tectonics of Arizona)

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