

INTRODUCTION

The papers comprising this volume were presented at Colloquium No 74 of the International Astronomical Union, on "Dynamical Trapping and Evolution in the Solar System", which was held in Gerakini, Chalkidiki, Greece, from August 30 through September 2, 1982, a few days after the IAU General Assembly of Patras, Greece. The Scientific Organizing Committee consisted of C.L. Goudas, J.D. Hadjidemetriou, Y. Kozai (Chairman), L. Kresák, V.V. Markellos, P.J. Message, A.E. Roy and V. Szebehely. To the Local Organizing Committee consisting of G. Bozis, J.D. Hadjidemetriou (Chairman), V.V. Markellos, C. Zagouras, and M. Michalodimitrakis, was due the success of the local arrangements.

There were 62 participants from 17 countries and 42 papers were presented (in the same order as given in this volume) on a variety of topics of Solar System Dynamics at seven sessions chaired by Y. Kozai, J. Kovalevsky, A.E. Roy, V.V. Markellos, V. Szebehely, J.D. Hadjidemetriou, and V.A. Brumberg; the seven sessions being on Satellites and Planets, Comets and Meteor Streams, Asteroids (two sessions), Periodic Orbits, Trapped Motion in the Three-Body Problem, and Miscellaneous Dynamics. Since the Colloquium overlapped, unfortunately, with the IAU Colloquium No 75 on "Planetary Rings" held at Toulouse, France, no papers were presented at Chalkidiki on the dynamics of planetary rings and several people who wanted to attend the Chalkidiki Colloquium could not come.

In spite, or because, of the relatively small number of participants the Colloquium at Chalkidiki was successful and enjoyable. Many stimulating discussions on the papers presented and on the participants' current researches were carried out between sessions, the formal sessions of each day thus being informally extended into the evening. The Colloquium was marked, in particular, by the presence of many brilliant young dynamical astronomers who have already contributed significantly to our understanding of the aspects of dynamical trapping in the Solar System's dynamical evolution and related topics.

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Editors of the Proceedings