

PREFACE

This is a collection of the edited papers presented at *the International Conference on Experimental Mechanics (ICEM 2006)*, held from September 26 - 29, 2006 at Lotte Hotel Jeju, Korea. ICEM 2006 is the fifth Asian Conference on Experimental Mechanics (ACEM5) series, which has taken place once a year since 2002.

During the last 4 years of ICEM, I have witnessed a dramatic surge of activities in research and development in the field of Experimental Mechanics in the Asia.

In the fifth Asian Conference on Experimental Mechanics, our focus is the new field of experimental mechanics in nano and biotechnology, which is burgeoning with advances in technology and the increasing need for precise measurement on novel materials and biological tissues. While optical techniques had been predominantly preferred, particularly in the field of bio-engineering, other mature methods are also being exploited in tandem with the growth in micro- and nano-manufacturing. This conference will provide an international forum to present and discuss significant progresses in research, development, and application of these areas.

With more than 720 abstracts from over 15 countries, 455 papers were selected after the strict peer-reviewing process. Due to the high quality of submitted papers, it was extremely difficult for the Technical Program Committee to select the 455 papers, the maximum allowable number in this book. This time, by developing the electronic paper submission/review/program-coordinate system, 92 reviewers around the world have participated the paper review and selection processes.

On behalf of the Organizing Committee, I would like to express my sincere appreciation to all of authors who contributed papers to ICEM 2006 and referees for their efforts reviewing the papers. Thanks also due to the members of Organizing Committee, Advisory Committee, Industrial Advisory Board and International Advisory Board for their support and contributions for the successful conference. Financial supports from industries, and sponsoring organizations and individuals are also greatly appreciated.

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General Chairman of ICEM 2006