

## Preface

Packaging science and technology have always been very important for modern manufactory, commerce and logistics, and there are wide varieties of research topics to be explored and technical problems to be solved within this broad engineering field and research area. Recently, the development of packaging science and technology is so fast, so the conference committees felt it necessary to organize a international conference to exchange ideas and showcase their research progress. As a result, the 2012 International Conference on Packaging Technology and Science (ICPTS 2012) will be held during 25-28 October 2012, in Ningbo, PRC.

The conference topics of ICPTS 2012 include Applied Mechanics of Packaging, Packaging Materials, Packaging Technology and Equipments, Package Design Methods, Packaging Printing, as well as Packaging Management and Others. The topics cover roughly all the areas of packaging engineering, so the conference provides a wide platform for worldwide researchers of packaging.

From a great number of submissions to ICPTS 2012, a collection of 161 papers are selected and complied into this volume book titled “Packaging Science and Technology”. All the selected papers have undergone a rigorous peer-review and reviewers, the conference organizers, etc.. the editors would like to thank all the authors for their valuable contributions and the reviewers for the constructive comments. Thanks are also due to the members of the Organizing Committee, in particular to those who are in the Program Committee, as well as to members of the Scientific Committee. Special thanks are given to the conference Organizing Committee chairman and secretariat, including Prof. De Gao, Dr. Feng Xu, Dr. Jianwei Zhou, Mr. Aifeng Liang, Mr. Lei Pei and Mr. Bin Zhang, as well as a lot of other colleagues, for their hard work and great efforts in making the whole event a success.

# **International Conference on Packaging Technology and Science (ICPTS 2012)**

**October 25-28, 2012, Ningbo, China**

## **Co-Organized by**

Ningbo Institute of Technology, Zhejiang University, PRC  
Editorial Board of Packaging Engineering, PRC  
Institute of Packaging Engineering, Jinan University, PRC  
Editorial Board of Packaging World, PRC

## **Hosted by**

Committee of Packaging Dynamics, Chinese Society of Vibration Engineering, PRC  
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