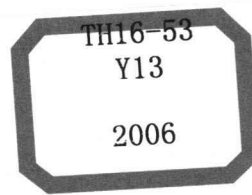




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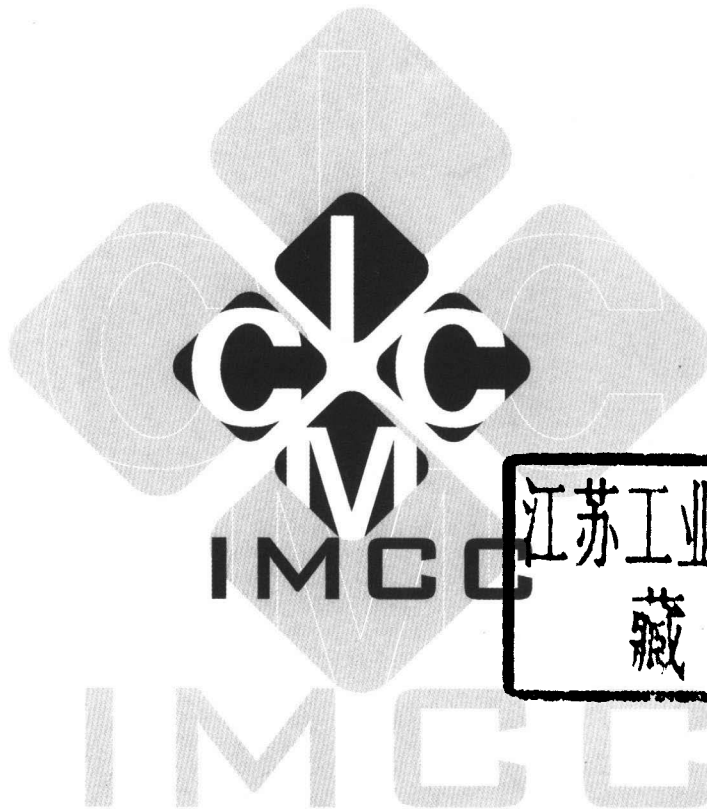
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Preface

It is a great pleasure and honor to welcome you to the 12th International Manufacturing Conference in China (IMCC'2006), which is going to be held in Xi'an, China, during September 21-23, 2006.

IMCC is a bi-annual conference inaugurated in 1983. The past eleven IMCC conferences were held successfully in Guangzhou (twice), Wuhan, Nanjing, Beijing, Harbin, Hong Kong, Xiamen, and Jinan. They have provided excellent platforms for participants to exchange their new ideas and have brought forth new research opportunities and collaborations. IMCC'2006 is sponsored by Northwestern Polytechnical University, Hong Kong Polytechnic University, National University of Singapore, University of Warwick, University of Strathclyde, and supported by National Natural Science Foundation of China and European Commission Asia Link Programme.

This conference accepted 370 papers from 510 full length papers submitted to the conference from over 120 institutes and organizations in 12 countries and regions. All of the papers have been peer reviewed by carefully chosen experts. Among the accepted papers, 293 are published in the special issue of the international journal *Materials Science Forum*. This volume of proceedings includes the abstracts of those 293 papers as well as 77 full papers. I hope the proceedings will provide the readers a broad overview of the recent advances in the field of materials manufacturing technology.

The chairman wishes to express sincere appreciation and thanks to all the members of the IMCC'2006 Conference Organizing Committee, the Program Committee, and all the referees, chairs, staffs, and volunteers for their tremendous efforts. Without their hard work and excellent jobs, it was impossible to lead to the success of IMCC'2006 and this Proceedings.

I am grateful to over 80 referees from Tsinghua University, Shanghai Jiaotong University, Haerbin Institute of Technology, South China University of Technology, Nanjing University of Aeronautics and Astronautics, Xi'an Jiaotong University, Dalian University of Technology, Shandong University, Guangdong University of Technology, Chongqing University, Tianjing University, Beijing Institute of Technology, Huaqiao University, Beijing University of Aeronautics and Astronautics, Jiangsu University, Northwestern Polytechnical University, for their serious reviews which guaranteed the quality of IMCC'2006.

Thanks are given to the chairs of the scientific panels: Prof. Hua Tao, Prof. Weihong Zhang, Prof. Songzheng Zhao, and Prof. Shusheng Zhang and the secretaries of the scientific panels: Dr. Yongjun Wang, Dr. Kepeng Qiu, Dr. Shubin Shi, and Dr. Kaifu Zhang, for their contribution to the high-standard technical programme.

I would like to thank all the members of the organizing committee of IMCC'2006, Prof. Geng Liu, Prof. Dinghua Zhang, Ms. Jingting Yuan, Prof. Liyan Wu, Ms. Xinyu Liu, Ms. Bo Chang, Ms. Dan Xiang, and Prof. Quan Zhou. Without their diligent work and countless contribution, it is unthinkable that we will have the success of IMCC'2006 and this volume.

Especially, I am most grateful to Prof. W. B. Lee and Dr. Sandy To of Hong Kong Polytechnic University for the fruitful cooperation. I am deeply indebted to Prof. Xipeng Xu, vice President of Huaqiao University for his efforts at each stage of the conference. Thanks are also given to Prof. Ning He of Nanjing University of Aeronautics and Astronautics for his discussion and help in organizing the conference.

I would like to express our gratitude to all other persons who took care of and helped this conference, especially Professors Ming Li and Yuanzhong Lei from National Natural Science Foundation of China, for their support during the whole course of the conference.

Finally, I would like to thank all the authors for their contribution to this valuable special issue.

Chengyu Jiang
General Chair of IMCC'2006
President of Northwestern Polytechnical University

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Chinese University Society of Machining and Advanced Manufacturing Technology

Past Conferences of IMCC

Sequence	Location	Time	Conference Organizer	Conference Chairman
1st IMCC	Guangzhou	1983	South China University of Technology	Prof. Zehua Zhou (周泽华)
2nd IMCC	Wuhan	1985	Huazhong University of Science and Technology	Prof. Riyao Chen (陈日曜)
3rd IMCC	Nanjing	1987	Nanjing University of Aeronautics and Astronautics	Prof. Youzhen Zhang (张幼桢)
4th IMCC	Beijing	1989	Beijing Institute of Technology	Prof. Qixun Yu (于启勋)
5th IMCC	Guangzhou	1991	Guangdong University of Technology	Prof. Shenhua Huang (黄燊华)
6th IMCC	Hong Kong	1993	The Hong Kong Polytechnic University	Prof. Lau W.S. (刘伟成)
7th IMCC	Harbin	1995	Harbin Institute of Technology	Prof. Zhejun Yuan (袁哲俊)
8th IMCC	Hong Kong	1997	The Hong Kong Polytechnic University	Prof. Lau W.S. (刘伟成)
9th IMCC	Hong Kong	2000	The Hong Kong Polytechnic University	Prof. Lau W.S. (刘伟成)
10th IMCC	Xiamen	2002	Huaqiao University	Prof. Xipeng Xu(徐西鹏)
11th IMCC	Jinan	2004	Shandong University	Prof. Xing Ai(艾兴)
12th IMCC	Xi'an	2006	Northwestern Polytechnical University	Prof. Chengyu Jiang(姜澄宇)

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