

Preface

2006 Beijing International Materials Week (2006 BIMW) was held in Beijing, China, June 25-30, 2006, sponsored and organized by Chinese Materials Research Society (C-MRS). 2006 BIMW included 6 international conferences, 13 domestic symposia, 2 forums and 1 international exhibition. More than 1700 participants from 34 different countries or areas attended 2006 BIMW.

2006 BIMW organizing committee has received about 1000 technical papers for the six international conferences. Among them, 457 papers of the four conferences of Magnesium (A), Aluminum Alloys (D), Aerospace Materials (E) and Superconductor Materials (G) have been selected to publish in the periodical Materials Science Forum by Trans. Tech. Publications Ltd.

This volume is the PART 1 of 2006 BIAM proceedings.

As first conference of 2006 BIMW, The International Conference on Magnesium 2006 (ICM2006) provided 4 topics, i.e. Cast Magnesium Alloys and Foundry Technologies, Wrought Magnesium Alloys and Processing, Other New Mg-based Materials and Technologies, Magnesium Corrosion and Surface Engineering for the exchange of scientific and technical information on the research and development of Mg-based materials and technologies for their processing and application. This conference received more than 300 technical contributions as invited lectures, oral and poster presentations. Subjected to strict review, 131 papers were selected for publication in this proceeding as a special edition of Materials Science Forum. More than 60 papers were reviewed and selected to be published in a separate processing as a special edition of Transactions of Nonferrous Metals Society of China.

On behalf of the organizing committee of the ICM2006, the editorial board would like to take this opportunity to express their sincere thanks to Chongqing University (CQU, China), Chinese Materials Research Society (C-MRS, China) and China Magnesium Center (CMC, China) for their financial and labor supports.

The editorial board would like to give their special thanks to Dr. G.S. Cole, Dr. W.Y. Zheng, Prof. E.H. Han, Prof. Q.D. Wang, Prof. S.K. Guan, Prof. D.F. Zhang, Prof. L.Y. Wang and many unnamed post-graduates and under-graduates for their precious and hard work for preparing the proceedings. Finally, special thanks are given to my colleagues, especially Prof. F.S. Pan, Prof. S. Long and Prof. Y.F. Han, for their great efforts devoted to organizing ICM 2006 and to editing of this proceeding.

Editorial Board of ICM Proceedings

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