

Proceedings of 2007 China International Conference on Aluminum Metallurgy

2007 中国国际铝冶金 技术论坛论文集

Editorial Committee
论文集编辑委员会

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Preface

China has for the recent 5 years been the largest primary aluminum producer in the world, and the technology in Chinese aluminum smelters is under rapid development. However, the fast expanding industry is facing challenges in energy and raw materials supply, international competition, and government pressure for environmental protection. Technology will play an important role in providing solutions to these problems and leading to a sustainable development for the Chinese aluminum industry.

2007 China International Conference on Aluminum Metallurgy, Beijing, Oct. 31-Nov. 2, is organized by Aluminum Corporation of China, University of Science and Technology Beijing, Central South University, and Committee of Aluminum Reduction Technology, Light Metals Committee of the Chinese Society of Nonferrous Metals. This conference is evolved from the previous national meetings on aluminum metallurgy held in the past ten years.

The Proceedings of 2007 China International Conference on Aluminum Metallurgy is a compilation of papers from industrial leaders, engineers, technical staff, managers, researchers and scientists, who work in various areas related to aluminum metallurgy. These papers provide information on the recent development in industry and new advance in technology. Because this is the first time to organize an international conference of this kind in China, many editorial tasks have to be finished in a very short time of notice and with great effort. We are so regretful to some mistakes and roughness that could appear in this publication.

The editorial committee of the proceedings would like to thank the authors, government agencies, aluminum industries, especially the staff in the Metallurgical Industry Press for their contribution and support to publish such a wonderful conference proceedings.

Editorial Committee of the Proceedings of
2007 China International Conference on Aluminum Metallurgy
Beijing, China
Oct. 28, 2007

前 言

中国铝产量已连续5年稳居世界首位，铝冶炼科技水平在若干方面达到或接近世界先进水平。但同时我国铝企业的发展面临一系列的新情况新问题，国家对铝行业的宏观调控措施进一步完善，国际跨国铝业公司的市场竞争日趋激烈。因此，铝冶金企业更加需要紧紧依靠科技进步和创新，缩小与世界先进水平的差距，培养具有国际视野和竞争力、能够实现自主创新和可持续发展的大型企业集团。

中国铝业集团已经连续两年面向国内铝业界召开了中国铝工业铝电解炭素技术高级研讨会，并于今年4月份又成功举办北京国际铝冶金—炭素技术研修班，为铝企业提供了良好的技术培训和交流平台，在行业内大大提升了影响力、凝聚力和带动力。为进一步促进国际间铝企业的技术交流和共享，提高我国铝生产企业的科技创新能力、技术水平和市场竞争力，实现节能减排和清洁生产，定于2007年10月31日~11月2日在北京召开2007中国国际铝冶金技术论坛（以下简称论坛）。论坛由中国铝业集团核心企业中国铝业公司会同北京科技大学、中南大学和中国有色金属学会轻金属学术委员会铝电解专业委员会举办，邀请国务院有关部委领导、国际知名大型铝企业和科研院所的专业人士、国内铝行业高层技术管理人员参加论坛并作大会演讲，并面向国内外铝业界人士尤其是企业技术人员广泛征求稿件汇编成本论文集。

本论文集在组织出版过程中得到中央有关部委、业内各有关单位以及冶金工业出版社的领导和专家的关心和支持。在此，论文集编辑委员会一并表示感谢！

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2007年10月28日

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