

Preface

This volume of Materials Science Forum represents a selection of the papers presented at the sixth International Light Metals Technology Conference held in Old Windsor (UK) on 24-26 July 2013 (LMT2013). It followed previous meetings in the series held in Brisbane (Australia) in 2003, St. Wolfgang (Austria) in 2005, Saint-Sauveur (Canada) in 2007, Gold Coast (Australia) 2009 and Lüneburg (Germany) 2011.

The Light Metals Technology series was initiated by the members of the global “Light Metals Alliance”, which includes: HZG – Helmholtz-Zentrum Geesthacht, MagIC, Germany; LKR – Leichtmetallkompetenzzentrum Ranshofen, AIT Austrian Institute of Technology, Austria; CANMET – Natural Resources Canada, Canada; MPI – Metal Processing Institute, Worcester Polytechnic Institute, USA; CSIR – Materials Science and Manufacturing, South Africa; CAST – Cooperative Research Centre, Australia; NERC-LAF – Shanghai Jiaotong University, China; and BCAST – Brunel University, UK.

LMT2013 was hosted by BCAST, a Specialist Research Institute of Brunel University, UK. BCAST is the lead partner of the EPSRC Centre - LiME, a national centre of excellence in liquid metal engineering supported by the UK Engineering and Physical Sciences Research Council. BCAST and the EPSRC Centre - LiME has a balanced portfolio of fundamental and user-led research in the areas of solidification science and the development of new alloys and technologies for closed-loop recycling, to support sustainability of the metallurgical industry

Light Metals Technology is a biennial conference that focuses on recent advances in the science and technologies associated with aluminium, magnesium and titanium alloys. Topics span the full light metals field from the development of new alloys, through processing and material behaviour, to final application, and increasingly the issues of sustainability and end-of-life. The conference series presents opportunities for academic researchers and industry to discuss cutting edge developments and to facilitate new collaborations.

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