

## Preface

In November 2006, the second international meeting entitled ‘Directionally Solidified Eutectic Ceramics Workshop II’ was held in Kyoto, Japan. This meeting was organized in response to the rapid growth in the science and technology of directionally solidified eutectic ceramic materials that had occurred since the first workshop held in May 2003 in Paris, France. The purpose of this second workshop was to review the “state of the art” in the field of directionally solidified eutectic ceramics as it applies to high-temperature applications. The primary themes of the workshop were: (1) microstructure property relationship, (2) phase diagrams and solidification of oxide eutectics and (3) high temperature mechanical properties. The 2006 Kyoto

conference attracted over 100 delegates. Research groups from academia, government agencies and industry in Japan, USA, Korea, Ukraine, France, Germany, Spain and Russia were in attendance. This volume contains a selection of the manuscripts presented at the conference; all papers have been subjected to full external, independent peer review.

On behalf of the international organizing committee, we would like to express our gratitude to the sponsoring organizations for their financial support. It is a pleasure to give special thanks to Dr. Joan Fuller of AFOSR who so richly deserves this recognition. This special issue in its richness would not have been possible without Dr. Fuller’s help.

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### Conference Organizers

Ali Sayir	Marie-Helene Berger	Joan Fuller and Laura Cooney	Yoshiharu Waku	Narihito Nakagawa	Shojiro Ochia
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