Foreword

Bulk Metallic Glasses IX

Bulk metallic glasses (BMGs) have been developed extensively ever since new BMG compositions with excellent glass-forming-ability were discovered in 1990s. BMGs have exhibited many unique properties, such as superior strengths with high elastic limits, excellent scratch and wear resistance, good corrosion resistance, *etc.*, as BMGs have amorphous structures without crystalline features. Owing to the discovery of new processing methods (*i.e.*, beating crystallization by millisecond heating and processing) and new BMG compositions with promising property (*i.e.*, damage-tolerant Pd-based BMGs), BMGs will still be considered as potential structural and functional materials, for example, new industrial products with high performance, such as microgears, yokes for linear actuators, golf-club heads, and electronic casings.

In order to strengthen the communication in the community of BMGs, a Bulk Metallic Glasses Symposium has been held successfully at The Minerals, Metals & Materials Society (TMS) Annual Meetings since 2004. The TMS Structural Materials Division and the TMS/American Society for Metals (ASM): Mechanical Behavior of Materials Committee kindly sponsored our Bulk Metallic Glasses Symposium. The Bulk Metallic Glasses IX Symposium was successfully held at the 2012 TMS Annual Meeting & Exhibition, Orlando, FL, March 11 to 15, 2012. 129 presentations, including four keynote addresses and 66 invited talks, were submitted during the meeting. The topics of the Bulk Metallic Glasses Symposium involved a wide range of BMG research areas, such as the alloy development and application, mechanical behavior, microstructure characterization, fatigue and corrosion, and simulation and modeling.

We would like to express our sincere appreciation to all the attendees for contributing to the success of our Bulk Metallic Glasses Symposium. We wish to acknowledge the sponsorship from TMS and ASM. All the submitted manuscripts were subjected to the standard peer-review procedures in the journal of *Metallurgical and Materials Transactions A*. A total of eight papers were accepted for publishing in the current issue. We are very grateful to all the key readers, the reviewers, and the staff of *Metallurgical and Materials Transactions A*, especially Ms. Dora Moscatello, Ms. Mary Lynn Brown, and Prof. David E. Laughlin, for their kind help in the preparation and approval of the Symposium publication.

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Symposium Organizers

Peter K. Liaw

Department of Materials Science and Engineering, The University of Tennessee, Knoxville, TN
email: pliaw@utk.edu

Gongyao Wang

Department of Materials Science and Engineering, The University of Tennessee, Knoxville, TN
email: gwang@utk.edu

Hahn Choo

Department of Materials Science and Engineering, The University of Tennessee, Knoxville, TN
email: hchoo@utk.edu

Yanfei Gao

Department of Materials Science and Engineering, The University of Tennessee, Knoxville, TN
email: ygao7@utk.edu