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Editorial

The International Conference on Materials for Advanced Technologies (ICMAT) is organised by the Materials Research Society, Singapore every two years. In 2011, the conference was held at Suntec City from 26th June to 1st July. The 2011 conference was the sixth conference in the series, it had 40 parallel symposia and more than 2500 participants from all over the world. For the first time in the ICMAT conference series, a session devoted to ion beams was included. Symposium BB: Nanoscale Imaging, Fabrication and Materials Modification Using Ion Beams was well attended and attracted more than 50 submissions on all areas of ion beam fabrication, modification and nano imaging. Topics covered include high energy heavy ion irradiation of materials and ion tracks, Proton Beam Writing, low energy Focused Ion Beams, Helium ion microscopy, surface modification by cluster ion beams and applications of ion beams to materials modification, photonics and fluidics.

The symposium also included papers that were presented as part of the 5th Proton Beam Writing Workshop. The symposium consisted of 17 invited presentations, 27 contributed oral presentations and 15 posters. The symposium technical sessions were held

over three and a half days followed by a tour of the accelerator facility at the Centre for Ion Beam Applications (CIBA), and the Helium Ion Microscope facility at the National University of Singapore (NUS).

The symposium chairs would like to express their appreciation to our sponsors Raith and the US Air Force Office of Scientific Research, Asian Office of Aerospace Research and Development. We would also like to thank our symposium co-chairs Ioannis Raptis and Robert Elliman for their help in the organisation of the symposium. A special thank-you to all the students who helped with the day to day running of the symposium, our session chairs and all the participants for making the scientific meeting a success.

After a strict review process, a selection of the papers presented at the symposium were chosen for publication in these proceedings.

Symposium Chair and Guest Editors

Jeroen A. van Kan

Andrew A. Bettiol

E-mail address: phyjavk@nus.edu.sg (J.A. van Kan)

phybaa@nus.edu.sg (A.A. Bettiol)

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