

## PREFACE

The 2nd International Conference on the Advancement of Materials and Nanotechnology (ICAMN II) took place on the 29<sup>th</sup> November to 1<sup>st</sup> December 2010 organized by the Centre for Nanomaterials Research, Institute of Science, Universiti Teknologi MARA, Malaysia. The scientific program of this conference included many topics related to the advancement of materials and Nanotechnology. The objectives of this conference were to give a platform for the presentation of the latest progress achieved by materials scientists in diverse fields such as the latest techniques in materials synthesis, characterization, fabrication and also the functionalities of the materials and devices. It was also to provide opportunities for networking and scientific collaborations among the participants.

The meeting were participated by scientists all over the world such as Korea, Japan, Australia, Thailand, Indonesia, Iran, Riyadh, Poland, India, Pakistan, Russia, United Kingdom, Egypt, China, Hongkong, Bangladesh, Nigeria and Singapore. The scientific program consisted of plenary sessions and parallel sessions and included the following topics:

- Electrochemical materials
- Semiconducting, electrical and electronic materials
- Bio,medical and pharmaceutical materials and technology
- Semiconducting and superconducting materials
- Catalytic materials
- Photoactive materials
- Nanomaterials and nanostructures
- Polymeric materials and composites
- Metals and alloys
- Devices (including MEMS and NEMS)
- Theory and simulation

The 3-day symposium had about 329 participants. In total, 44 plenary and invited talks and 285 contributed papers were presented. The selected contributed papers can be found in this publication, arranged according to the above topics. Only selected papers of the camera ready manuscripts were accepted.

We wish to thank all the participants who have submitted their full papers and the reviewers. We also gratefully acknowledge the financial support from the main sponsors, Universiti Teknologi MARA, JEOL Malaysia and Ministry of Science, Technology and Innovation Malaysia. Many small contributions were also made from various scientific companies as listed in the Programme Book. We also wish to thank members of the organizing committee for their hard work and effort.

Norlida Kamarulzaman  
Wong Tin Wui  
Nor Sabirin Mohamed  
Roshidah Rusdi  
Nor Fadilah Chayed

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## **Acknowledgement to all sponsors**

This event is made possible with kind contributions from several sponsors that the Centre for Nanomaterials Research, Institute of Science, Universiti Teknologi MARA would like to acknowledge. The following organizations generously contributed in one form or another towards achieving the objective of giving benefit to all attendees. The sponsors are as follows:

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