

## PREFACE

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### WELCOMING SPEECH FROM CHAIRMAN iMEC 2013



First and foremost, I would like to welcome all distinguished guests, invited speakers and participants to the 1st International Manufacturing Engineering Conference (iMEC 2013). This conference has managed to attract academics, researchers, practitioners and many others to dwell on the major areas of manufacturing engineering.

The iMEC provide a platform to bring together not only researchers but also the postgraduate student in Manufacturing Process, Manufacturing Automation and Manufacturing Systems and Management. With this platform, iMEC will embark on the process of making new discoveries and then translating them into products and services for the marketplace. As one of Malaysia Public Universities, UMP's main challenge is to remain competitive and relevant by offering high quality technical academic programmes and research activities, focusing on its niche areas. A new knowledge and findings cannot be generated without any research and development (R&D) activities.

I believe you will benefit in many ways in this conference either as speakers or as participants. I also hope this conference is a good platform to build research network in many fields and open for great opportunity to cooperate in the future

Finally, I wish all of you good luck and all the best at this conference. Thank you.

Dr. Noraini Binti Mohd Razali  
Chairman  
iMEC 2013

## MESSAGE FROM VICE CHANCELLOR, UMP



Salam 1Malaysia!

As one UMP's faculties, the Faculty of Manufacturing Engineering has undergone a significant evolution process, growing from a department to full-fledged faculty, thus challenging it to contribute constructively towards UMP's strategic journey.

The implementation of UMP Strategic Plan 2011-2015 calls for active involvement from all Faculties, Departments, academia, administrators and students of this University to work collectively in achieving the targets that have been set for all four Key Result Areas (KRAs) within that strategic framework.

Hence, the initiative to hold the inaugural International Manufacturing Engineering Conference (iMEC) is a clear indication of this faculty's commitment to strategically position itself on local and global coordinates, enabling it to reach out and expand the existing strategic networking with institutions of high-repute, both nationally and internationally.

As a platform of intellectual engagement, iMEC should address the current issues and latest development in manufacturing process, manufacturing automation and manufacturing systems and management by bringing academia, researchers and postgraduate students together.

I wish you all a fruitful discourse. Thank you.

**PROFESSOR DATO' DR. DAING NASIR IBRAHIM**  
Vice-Chancellor, Universiti Malaysia Pahang

## **WELCOMING SPEECH FROM DEAN FACULTY OF MANUFACTURING ENGINEERING, UMP**



In the name of Allah, the Most Beneficent, the Most Merciful

Firstly, on behalf of the organising committee, I would like to convey my deepest thank to all, the participants and sponsors of the conference and would like also to welcome our guest to the 1st International Manufacturing Engineering Conference (iMEC 2013).

iMEC is an ideal platform for all academicians, researchers, and postgraduate students to share current ideas and findings in this conference. Universiti Malaysia Pahang aspires to be a global university and we have done much effort towards achieving this ambition, including this conference. I would like to encourage young researchers to actively take part in discussion of their research interest and consults relevant experts and professors in this conference.

I would not be appropriate if we do not take this opportunity to thank the organising committee and the secretariat for their untiring efforts to bring this conference to this height. No word of thanks can be equated for their dedication and perseverance. My appreciation and thanks also to the support of the university especially the Dato' Vice Chancellor. I wish you all the best and have an enjoyable and fruitful conference.

Assoc Prof. Dr Wan Azhar Bin Wan Yusoff  
Dean Faculty of Manufacturing Engineering, UMP

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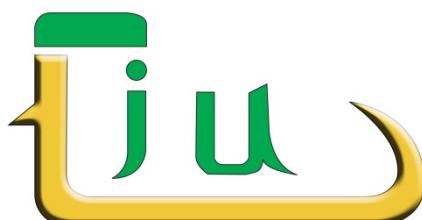
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