

PROGRAMME &  
ABSTRACT  
BOOK

# NANO SciTech 2014 & IC-NET 2014

MALAYSIA-JAPAN INTERNATIONAL CONFERENCE ON NANOSCIENCE,  
NANOTECHNOLOGY AND NANOENGINEERING 2014

## Venue

Institute of Leadership and  
Quality Management (iLQAM)  
Universiti Teknologi MARA (UiTM)  
Shah Alam, Selangor, MALAYSIA

## Date

February 28 - March 3, 2014  
(Friday to Monday)

## Organised



NANO-SciTech Centre  
Institute of Science  
Universiti Teknologi MARA (UiTM)  
Selangor, MALAYSIA

## Co-organised by



UiTM-NITech Liaison Office  
Nagoya Institute of Technology (NITech)  
Nagoya, JAPAN



Department of Electronic System Engineering  
Kagawa National College of Technology (KNCT)  
Kagawa, JAPAN



Institute of Nano Electronic Engineering  
Universiti Malaysia Perlis (UniMAP)  
Perlis, MALAYSIA



## Foreword by The Director of The Institute of Science



It is indeed a great pleasure for me to welcome all invited speakers and participants to the NANO-SciTech 2014 & IC-NET 2014 conference which are jointly organized by the NANO-SciTech Centre, Institute of Science, UiTM, the Nagoya Institute of Technology (NITech), Japan, the Kagawa National College of Technology (KNCT), Japan and Institute of Nano Electronic Engineering, UniMAP, Malaysia.

The Nano-SciTech Centre is one of the six research centres under the Institute of Science devoted to produce quality and cutting edge researches. I am very pleased with the commitment given by the NANO-SciTech Centre, Institute of Science, UiTM, the Nagoya Institute of Technology (NITech), Japan, the Kagawa National College of Technology (KNCT), Japan and Institute of Nano Electronic Engineering, UniMAP, Malaysia in organizing this event every two years without fail since the signing of the MoU between UiTM and NITech. I hope this link will continue to contribute positively towards the Nanoscience and Nanotechnology research area.

In recent years we have seen a tremendous growth in Nanoscience, Nanotechnology and Nanoengineering research knowledge. This highly interdisciplinary field is expanding worldwide, leading to fundamental scientific advances and resulting in dramatic changes in the ways that materials, devices, and systems are understood and created. I am sure this conference will contribute to the growing knowledge in this field. I hope all of you will take this opportunity to share and exchange knowledge and research experience and form research collaborations.

I would like to take this opportunity to congratulate the organising committee on their tireless efforts, dedication and commitment in successfully organising the NANO-SciTech 2014 & IC-NET 2014. Last but not least I wish all of you a successful and rewarding conference.

**Professor Dr Ahmad Sazali Hamzah**  
**Director**  
**Institute of Science (IOS)**  
**Universiti Teknologi MARA (UiTM)**

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