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International Nuclear Science, Technology and Engineering Conference 2018

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International Nuclear Science, Technology and Engineering Conference 2018 (iNuSTEC2018)

“Sustainable Nuclear Economy For The Nation Progress”

**Universiti Teknologi Malaysia
Skudai, Johor, Malaysia
23-25 November 2018**

Editors

Khaidir Hamzah

Universiti Teknologi Malaysia (UTM)

Nahrul Khair Alang Md Rashid

Universiti Teknologi Malaysia (UTM)

Faridah Mohamad Idris

Malaysian Nuclear Agency (Nuclear Malaysia)

Abdul Aziz Mohamed

Universiti Tenaga Nasional Malaysia (UNITEN)

Mohd Syukri Yahya

Universiti Tenaga Nasional Malaysia (UNITEN)

Faizal KP Kunchi Mohamed

Universiti Kebangsaan Malaysia (UKM)

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PREFACE

All praises to God the Al-Mighty for giving us the strengths and the His blessing in making Nuclear Science, Technology and Engineering Conference 2018 (iNuSTEC2018) a success.

The history in organizing Nuclear Science, Technology and Engineering Conference started back in 2010. During that year Then, it was called NuSTEC2010 and was organized only at national and regional levels. From that year onwards, we succeeded in organizing our second (iNuSTEC2011), third (iNuSTEC2012), fourth (international iNUSTEC2013), fifth (NuSTEC2014), sixth (international iNuSTEC2015), seventh (international iNuSTEC2016) and eighth (international iNuSTEC2017) conferences. Based on these achievements, we have decided to reconvene the conference sustainability by organizing regional/international iNuSTEC on annual basis.

The iNuSTEC2018 was held from 23- 25 November 2018 at Universiti Teknologi Malaysia (UTM) in Skudai, Johor, Malaysia. The conference continued the tradition of continuous effort by Malaysian Nuclear society to bring together the nuclear communities in an annual event to discuss and to discourse on progress in nuclear researches and related fields. The conference particularly encouraged the interaction of research students, research institutions and academics with the more established community. iNuSTEC2018 also played an essential role in introducing and fostering new research talents and in advancing the future profile of nuclear science, technology and engineering regionally and globally.

iNuSTEC2018 comprised of the conference parallel sessions and Nuclear Youth competition UTM had also organized a post-conference workshop on Introduction to MNCP on the 26 to 27th of November 2018. At the national forefront of science and energy development, we were honoured to be able to highlight the usage of science and engineering in the nuclear fields and to promote the use of nuclear science and technology for peaceful use through these conference, workshop and side-meetings.

We would like to acknowledge the Ministry of Energy, Science, Technology, Environment and Climate Change Malaysia (MESTECC), Ministry of Education Malaysia (MOE), Malaysian Nuclear Agency (Nuklear Malaysia), International Atomic Energy Agency (IAEA), Hitachi-GE Nuclear Energy Ltd., Japan Atomic Energy Agency (JAEA), Japan Atomic Energy Society (JAES), Tokyo Institute Technology, China National Nuclear Corporation (CNNC), Nusantara Technologies Sdn Bhd, Asia-Oceania Neutron Scattering Association (AONSA), ASME Section Malaysia, Malaysian Welding and Joining society, Institute of Nuclear Engineers (INE MNS), Nuclear Engineering Student Society (NESS), NGOs, universities and companies for their moral and financial support. Special thanks to iNuSTEC2018 organizing committees for their effort and commitment during this conference. We look forward to meeting all of you in 2019 – iNuSTEC2019 @ UKM.

Assoc Prof Dr Khaidzir Hamzah (UTM)

Dr Faridah Mohamad Idris (MNS)

Chairs of iNuSTEC2018

Skudai, Johor

Malaysia

**MESSAGE FROM:
PRESIDENT, MALAYSIAN NUCLEAR SOCIETY (MNS)**

On behalf of the Malaysian Nuclear Society (MNS), I would like to express our thanks to all participants of the International Nuclear Science, Technology and Engineering Conference 2018 (iNuSTEC2018). MNS is honoured to receive supports from distinguished international and national experts in the field of nuclear (neutron) science and engineering as International Advisory and National Advisory Panels for iNuSTEC2018. We are indeed pleased to have Organizing Committees of iNuSTEC2018 and the Secretariats working with along to ensure the success of iNuSTEC2018. At the forefront of nuclear science and engineering MNS collaborates with universities and related NGOs to bring the success of iNuSTEC2018. MNS members shall strive to make it better and stronger in future.

In conjunction with this conference, MNS is also honoured to organise 3rd Nuclear Youth Competition 2018 (NYC2018) to help bring the young nuclear generation into the main stream of nuclear development and issues. A post conference workshop on introduction to MCNP simulation had been organised to give essential knowledge for Malaysian nuclear researchers in using computers as a tool of a simulation method.

This conference brings together experienced and young researchers to discuss and debate latest development in all areas of nuclear science, engineering and technology applications for friendly purposes at international level. This would spur and catalyse further research and development leading to the sustainable and improvement of the quality of life without compromising the quality of the environment in Malaysia and in the world.

We would like to express our gratitude to UTM for hosting iNuSTEC2018, NYC2018 and the post conference workshop and, to all the personnel involved for their unwavering efforts to make this event a reality. I wish to also record my appreciations and thanks to all sponsors for their generous support. May all these efforts bring benefits to all of us and I congratulate everyone involved in making this conference successful event.

“Sustainable Nuclear Science and Technology for Well-Being of Mankind”

Thank you.

**Assoc Prof Dr Abdul Aziz Mohamed
President, MNS**

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