PREFACE

Dear readers and contributors.

First of all, we are pleased to have an opportunity to thank and congratulate all of our contributors from various parts of the world who took part in the Seminar on Materials Characterization Techniques in Research, Industry and Nuclear Applications (AMCT 2015), held at the Palace of the Golden Horses, Seri Kembangan, Kuala Lumpur, Malaysia from 9th to 10th June 2015. AMCT 2015 was jointly organized by X-ray Application Malaysia of Malaysian Nuclear Society (XAPP-MNS), Malaysian Nuclear Agency (MNA) and thirteen other institutions in Malaysia.

AMCT 2015 is very pleased to receive 122 participants with 100 scientific papers (oral and poster presentations). The topics were associated to the usage of X-ray and other related techniques in research and industry. We are also delighted to have selected 81 high quality manuscripts, to be published in Materials Science Forum 2015 by Trans Tech Publications Ltd. All manuscripts were peer reviewed by experts from corresponding fields. Therefore, the papers are of high standards and have satisfied the referee's requirement. We believe, by doing so, the quality and integrity of the scientific contributions in AMCT 2015 can be endorsed, subsequently maintained and improved in future editions.

Finally, we would like to extend our invitation to all scientists, researchers and sponsors in this field to participate in the coming IXCRI 2016, with opportunity to publish their efforts in a similarly high quality indexed publication.

Guest Editors

Professor Dr. Zainal Arifin Ahmad (Universiti Sains Malaysia, USM) - Chief

Professor Dr. Mohd Ambar Yarmo (Universiti Kebangsaan Malaysia, UKM)

Professor Dr. Fauziah Abd Aziz (Universiti Pertahanan Nasional Malaysia, UPNM)

Associate Professor Dr. Khairul Nizar Ismail (Universiti Malaysia Perlis, UniMAP)

Dr. Meor Yusoff Meor Sulaiman (Malaysian Nuclear Agency, MNA)

Dr. Norazharuddin Shah Abdullah (Universiti Sains Malaysia, USM)

Dr. Yusof Abdullah (Malaysian Nuclear Agency, MNA)

Dr. Wan Fahmin Faiz Wan Ali (Universiti Sains Malaysia, USM)

Dr. Nik Akmar Rejab (Universiti Sains Malaysia, USM)

Mr. Abdul Rashid Jamaludin (Universiti Sains Malaysia, USM)

ORGANIZING COMMITTEE

Honorary advisor

Prof. Dr. Mohd Ambar Yarmo (Universiti Kebangsaan Malaysia, UKM)

Prof. Dr. Zainal Arifin Ahmad (Universiti Sains Malaysia, USM)

Prof. Dr. Fauziah Abdul Aziz (Universiti Pertahanan Nasional Malaysia, UPNM)

Chairman

Dr. Meor Yusoff Meor Sulaiman (Malaysian Nuclear Agency, MNA)

Secretary

Mr. Ahmad Khairulikram Zahari (Malaysian Nuclear Agency, MNA)

Treasurer

Dr. Yusof Abdullah (Malaysian Nuclear Agency, MNA)

Secretariat

Assoc. Prof. Dr. Khairul Nizar Ismail (Universiti Malaysia Perlis, UniMAP)

Assoc. Prof. Dr. Hasan Zuhudi Abdullah (Universiti Tun Husein Malaysia, UTHM)

Dr. Norazharuddin Shah Abdullah (Universiti Sains Malaysia, USM)

Dr. Wan Fahmin Faiz Wan Ali (Universiti Sains Malaysia, USM)

Dr. Cik Rohaida Che Hak (Malaysian Nuclear Agency, MNA)

Dr. Roshasnorlyza Hazan (Malaysian Nuclear Agency, MNA)

Ms. Khaironie Mohamed Takip(Malaysian Nuclear Agency, MNA)

Ms. Nur Ubaidah Saidin (Malaysian Nuclear Agency, MNA)

Ms. Nur Aqilah Sapiee (Malaysian Nuclear Agency, MNA)

Ms. Nursaidatul Syafadillah Kamaruzaman (Malaysian Nuclear Agency, MNA)

Ms. Nurul Azra Bakaruddin (Malaysian Nuclear Agency, MNA)

Ms. Mohd 'Izzat Fahmi Mohd Ruf (Malaysian Nuclear Agency, MNA)

University Representatives

Assoc. Prof. Dr. Warikh Abd. Rashid (Universiti Teknikal Melaka Malaysia, UTeM)

Assoc. Prof. Dr. Saidatulakmar Shamsuddin (Universiti Teknologi Malaysia, UiTM)

Dr. Ahmad Zahirani Ahmad Azhar (Universiti Islam Antarabangsa Malaysia, UIAM)

Dr. Muhammad Azwadi Sulaiman (Universiti Malaysia Kelantan, UMK)

Dr. Muhammad Firdaus Mohd Nazeri (Universiti Malaysia Perlis, UniMAP)

Dr. Mohd Al-Amin Muhamad Nor (Universiti Malaysia Terengganu, UMT)

Dr. Banjuraizah Johar (Universiti Malaysia Perlis, UniMAP)