

## MEDIA RELEASE

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### **CRYPTOLOGY 2016: A BIG STEP TOWARDS ENHANCING AND REALIZING RESEARCH AND APPLICATIONS OF CRYPTOLOGY IN MALAYSIA**

**KOTA KINABALU (31 MAY 2016)** – Having local technology and products in Cryptology will reduce dependency on imported security products, thus strengthening the capability in Cryptology is the top priority which includes developing more local expertise and talents.

CyberSecurity Malaysia in partnership with the Malaysian Society for Cryptology Research (MSCR) supported by Universiti Putra Malaysia (UPM), Universiti Malaysia Sabah (UMS) and Universiti Sains Malaysia (USM) today organized the 5<sup>th</sup> International Cryptology and Information Security 2016 or in short Cryptology2016 at the Ming Garden Hotel and Residences, Kota Kinabalu. The conference is officiated by YB. Datuk Seri Panglima Madius Tangau, Minister of Science, Technology & Innovation (MOSTI).

In his speech, YB. Datuk Seri Panglima Madius Tangau, said that the conference is the right avenue to further discuss on research collaboration and new ideas in Cryptology and information security.

“For users of the Information and Communications Technology (ICT), what matter most is to have a continuous, un-interrupted internet services and be able to go online all the time. Reliable internet services are also critical for business and social activities. Thus, Cryptology being the science behind cyber security is becoming more important than ever before.” the Minister added.

The Malaysian Society for Cryptology Research (MSCR), which was established in 2007 (after the success of the 1st and 2nd National Cryptography Conference in 2004 and 2006), sets its sight as being a premier research society in the field of cryptology in realizing the full



potential of cryptography for Malaysia. Since its inception, it has been engaged by various agencies that sought after advice with relation to cryptography and cryptology in general.

“The Society and CyberSecurity Malaysia have both been integral parties for five consecutive international cryptology conferences (in 2008, 2010, 2012, 2014 and 2016). Throughout the years, this conference series has made its mark in the international arena. This conference is an arena and one of the many steps towards enhancing as well as realizing research and applications of cryptology in Malaysia is through research collaboration and discussion with numerous research counterparts from the international arena. This is an open forum, provided for contributions which cover research on the theoretical foundations, applications and any related issues in cryptology, information security and other underlying technologies.” explained the President of Malaysian Society for Cryptology Research (MSCR), YBhg. Dato’ Dr. Hj. Kamel Ariffin Haji Mohd Atan.

In 2016, MSCR together with CyberSecurity Malaysia as well as UPM, UMS and USM have organized three keynote speeches to be delivered by renowned researchers in their respective areas for the benefit of participants. 30 papers are scheduled to be presented encompassing various areas of cryptology such as theoretical foundations, applications, network security and other underlying technologies in this interesting field, which encompasses mathematics, computer science and engineering.

During the event, CyberSecurity Malaysia introduces new cryptographic analysis tools known as CSM Randomness Test Tool (CRTT). The tool was developed to analyse randomness properties produced by random or pseudorandom number generators. Randomness properties is important in cryptography especially when used to generate a secret key and without it the security of the cryptography key may be compromised. This can lead to data leakage. With a simple and easy to use design, CRTT is able to conduct the required analysis using fifteen (15) statistical tests, complete with analysis report and only required a minimal interaction with the user.

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**CyberSecurity Malaysia** is the national specialist centre for cyber security, under the Ministry of Science, Technology and Innovation (MOSTI). For additional information, please visit our website at <http://www.cybersecurity.my>. For general inquiry, please email to [info@cybersecurity.my](mailto:info@cybersecurity.my). Stay connected with us on social networks: facebook/ CyberSecurityMalaysia, twitter/cybersecuritymy, youtube/cybersecuritymy, instagram/CyberSecurity\_Malaysia.

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