



**WELCOMING REMARKS**  
**YBRS. DR. REZAL KHAIRI AHMAD**  
**CEO OF NANOMALAYSIA**  
**&**  
**DR. ANTONIO CORREIA**  
**FOUNDER OF PHANTOMS FOUNDATION**

**FOR**  
**GRAPHENE MALAYSIA 2016**  
**8<sup>TH</sup> NOVEMBER 2016**

SALUTATION

**YANG BERHORMAT DATUK SERI PANGLIMA MADIUS TANGAU**

Minister

Ministry of Science, Technology and Innovation

**YANG BERHORMAT DATUK CHUA TEE YONG**

Deputy Minister of Trade

Ministry of International Trade and Industry

**YANG BERBAHAGIA EMERITUS PROFESSOR DATO' IR. DR.**

**MOHAMAD ZAWAWI BIN ISMAIL**

Chairman

NanoMalaysia Berhad

**YANG BERBAHAGIA DATO' DR. MOHD AZHAR YAHAYA**

Secretary General

Ministry of Science, Technology and Innovation

**Distinguished Guests,**

**Delegates**

**Members of Media,**

**Ladies and Gentlemen.**

Dr. Rezal: Assalamualaikum and a very Good Morning to all of you.

A warm welcome to Graphene Malaysia 2016, an event made possible through a partnership between NanoMalaysia and Phantoms Foundation, congregating manufacturers, SMEs and product innovators.

This collaboration started when I attended Graphene 2015 in Bilbao, Spain sparking series of communication culminating to an agreement created during a meeting in Tokyo in January 2016 with Dr. Antonio Correia on a partnership for organising Graphene Malaysia 2016.

Dr. Correia: Yes. It was indeed a great proposal and Phantoms grabbed the opportunity to collaborate with NanoMalaysia in organising Graphene Malaysia 2016, an opener for graphene experts around the world to infuse graphene fever here in Asia Pacific. As an introduction, Phantoms Foundation focuses its activities on Nanoscience & Nanotechnology and is a key factor in structuring and fostering European Excellence and enhancing collaborations in this field. Our goals are;

i) to provide an innovative platform for dissemination, transfer and transformation of basic nanoscience knowledge; and

ii) to strengthen interdisciplinary research in nanoscience and nanotechnology and catalyse collaboration among international research groups and favour the emergence of new joint project proposals.

Dr. Rezal: Ladies and Gentlemen,

Graphene Malaysia 2016 is launched under the aegis of the National Graphene Action Plan 2020 spearheaded by NanoMalaysia Berhad. This international event is supported by the Ministry of Science, Technology and Innovation and the Ministry of International Trade and Industry.

Dr. Correia: This event is aimed to develop local and international industry engagement and knowledge sharing between Malaysian and the global experts of graphene. Phantoms Foundation as a non-profit Association is also playing an important role as a dissemination platform in national and 6th/7th framework programs European funded projects to spread excellence among a wider audience and here we are helping in forming new networks in Malaysia.

Dr. Rezal: Ladies and Gentlemen,

Graphene for those who do not know what it is, is an isolated single-atom layer of graphite which you can find in the pencil.

This single layer of pure carbon atoms are bonded together in a hexagonal honeycomb lattice that looks incredibly similar to chicken wire.

With nanotechnology, methane – a greenhouse gas – can be derived from industrial processes such as those involving Palm Oil Mill Effluents and nanotechnology can convert the methane into graphene; repeat the process and what you get is the ability to balance off the excess of methane in the atmosphere.

Some of graphene's extraordinary properties include that it is a transparent material and able to transmit almost 98% of light which makes it able to be used in the optoelectronic applications such as in LCD touchscreens of mobile phones or even television at home.

Of numerous proposed downstream applications for graphene, opportunities for commercialisation have been looking at both new market applications and pre-existing markets, with a focus on the latter for immediate realisation of its economic value.

Only in Malaysia commercialisation of graphene has its own action plan and we name it as National Graphene Action Plan 2020. The National Graphene Action Plan 2020 as the strategic framework for graphene paves the way towards kick-starting graphene based industries in the country.

Since 2014, the National Graphene Action Plan 2020 has achieved tremendous traction in getting industry players to jump on the graphene bandwagon. This event is culmination of efforts done since its inception. Malaysia's National Graphene Action Plan 2020 is duly recognised domestically, regionally and globally. We hope with this inaugural event of Graphene Malaysia will be the tipping point in mass graphene acceptance by the public, industry and government.

NanoMalaysia is tasked to execute this National Graphene Action Plan 2020 governed by an execution steering committee comprising of relevant government agencies including MOSTI, MITI, PEMANDU, EPU and AIM providing strategic advisory.

Ladies and Gentlemen,

NANO*Verify* Programme was created jointly in collaboration between NanoMalaysia, SIRIM QAS International and Standards Malaysia. This is the very first voluntary nano-certification programme in Malaysia and the sixth of its kind in the world.

NanoMalaysia is keen to solve the domination of fake nano-based products in the market. With the scale-up production of graphene-based products, it is imperative that we offer NANO*Verify* certificate to every products under our facilitation to help customers get real and genuine products of nanotechnology.

NANO*Verify* programme provides peace of mind and assurance to the end-user but also to ensure standards and quality assurance are maintained rigorously.

Ladies and Gentlemen,

Phantoms Foundation and NanoMalaysia have been working hand in hand in making sure this event a success.

I will let Dr. Correia to explain more on our event tentative to give you some light on what are served for you today and tomorrow.

Dr. Correia: Right after this we will have plenary session; on 9<sup>th</sup>

November 2016 we will have four parallel sessions on Graphene Production; Metrology, Characterisation and Standardisation; Applications of Graphene and Related Materials; Funding and Infrastructure Support; and will end the conference with a plenary session.

Graphene Malaysia 2016 also invites industries and SMEs to join us as exhibitor and you may know more about their involvement in nanotechnology at Summit 1.

Dr. Rezal: Ladies and Gentlemen,

In ensuring a sustainable ecosystem is available to spur industrial migration to high value added and complex products, NanoMalaysia has established the Advanced Materials Industrialization Programme in 2015. We are sincerely thankful to Sectoral Policy Division of MITI for supporting and funding this initiative as part of MITI's RMK-11 Manufacturing of High Value Added and Complex Product Development Programme, creating an NBOS platform to further strengthen collaborative efforts between MOSTI and MITI to drive the growth of Malaysian industry and economy through the use of advanced technology.

To fast track product development and commercialisation, I would like to announce NanoMalaysia's Advanced Materials Industrial Ecosystem through strategic partnership with MIMOS Berhad, SIRIM Berhad and Technology Park Malaysia to provide end-to-end support services to industries from technical advisory, product prototyping, testing, certification and strategic business positioning for sustainable business expansion. The use of existing facilities and expertise enable companies to maximize resources and reduce operating cost especially for SMEs and Small Enterprise. We do foresee that this ecosystem will be a platform to further spur the growth of our local companies to compete and be world leaders as part of the 4th Industrial Revolution. Hence, I am also honoured to announce that this Advanced Materials Industrial Ecosystem will be jointly launched by both MOSTI and MITI this morning.

Ladies and Gentlemen,

In 2016, NanoMalaysia turned 5 year old. Today, we would like to take the opportunity having your presence here to convey our appreciation towards your cooperation, commitment and unending support. NanoMalaysia would never accomplish much as it is today without it.

My deepest appreciation to all of you who have been with us since the beginning and hopefully our relationship will be strengthened and benefiting others.

Dr. Correia: Congratulations NanoMalaysia Berhad for such an amazing 5 years journey in progressing Malaysia into nanotechnology based economy. I am very honoured to be here to witness the celebration of your 5 years accomplishments. In 5 years, we as well in Europe managed to develop a EUREKA cluster which is defined as a complementary enabling and accelerator instrument in the European scene, fully piloted by industries to further take graphene from the mature research developed at academic laboratories into the European society boosting economic growth, jobs creation and international leadership and investment attractiveness.

The cluster will elaborate and foster industrially-driven innovation strategies, that will take advantage of the existing excellent science and transnational platforms in Europe (national networks, Graphene-Flagship, etc.), and will focus on solving current challenges which are limiting the time to market and business growth of graphene-related EU companies.

All: Ladies and Gentlemen, without further ado, NanoMalaysia Berhad and Phantoms Foundation would like to welcome all of you to Graphene Malaysia 2016. Hope you have a fruitful presence here. Thank you.