

**SPEECH BY
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DEPUTY MINISTER OF SCIENCE, TECHNOLOGY AND INNOVATION**

11th MALAYSIAN CHEM-E-CAR COMPETITION 2016

**UNIVERSITI TEKNOLOGI MALAYSIA
SKUDAI, JOHOR**

9 APRIL 2016 (SATURDAY)

Yang Berusaha Tuan Pengerusi Majlis.

YANG BERBAHAGIA DATO' IR. LIM CHOW HOCK

Yang DiPertua Institusi Jurutera Malaysia (IEM);

YANG BERBAHAGIA PROF. DATUK IR. DR. WAHID OMAR

Naib Canselor, Universiti Teknologi Malaysia (UTM);

YANG BERUSAHA PROF. DR. ZAINUDDIN ABD. MANAN

Dekan, Fakulti Kejuruteraan Kimia dan Tenaga (FCEE), UTM;

YANG BERUSAHA ENGR. DR. NOOR YUSMIZA YUSOFF

Pengerusi Jawatankuasa Penganjur;

YANG BERUSAHA DR. UMI AISAH ASLI

Pengerusi Bersama Jawatankuasa Penganjur;

YANG BERUSAHA IR. THAYANANTHAN BALAKRISHNAN

Pengerusi, Bahagian Teknikal Kejuruteraan Kimia, IEM;

YANG BERUSAHA SAUDARA MUHAMMAD FITRI BIN SAIDI

Pengarah Pertandingan Chem-E-Car Nasional Kali Ke-11;

Dif-dif kehormat, wakil-wakil dari pihak media, tuan-tuan dan puan-puan yang dihormati sekalian.

Assalamualaikum W.B.T., Salam Sejahtera dan Salam 1Malaysia.

1. Bersyukur kita ke hadrat Allah S.W.T. kerana dengan izin dan rahmat-Nya, kita telah sama-sama dapat berkumpul pada pagi ini untuk meraikan majlis yang cukup bermakna ini. Semoga majlis ini akan mendapat keberkatan oleh-Nya.
2. Terlebih dahulu, saya ingin merakamkan ucapan terima kasih kepada Institusi Jurutera Malaysia (IEM) dan Universiti Teknologi Malaysia (UTM) kerana telah sudi untuk mengundang saya pada pagi ini bagi merasmikan Pertandingan Chem-e-Car Kali Ke-11. Saya amat gembira kerana dapat bersama-sama anda sekalian yang saya anggap sebagai pendukung dan penggerak utama dalam pembangunan infrastruktur dan pembangunan negara.
3. Izinkan saya untuk meneruskan ucapan saya dalam Bahasa Inggeris.

Ladies and Gentlemen,

4. The 11th Chem-e-Car Competition 2016 exemplifies the invaluable cooperation between IEM and the various universities and higher learning institutions in promoting creativity and innovation amongst university undergraduates. This competition, I must say, serves as an excellent platform for undergraduates to expand their creativity and to exercise their abilities in the field of chemical engineering technology.
5. I was made to understand that the theme for this year's Chem-e-Car Competition is "**Aspiring for Green Energy**". This is indeed a positive sign for the engineering students who will become the future generation of engineers in this country making their efforts towards promoting green energy.
6. It has been reported in various research reports that the world's supply of fossil fuels would last only another few decades based on the current rate of consumption. Therefore, what you are working on now could be the solution to the inevitable energy crisis.

7. In order to build a sustainable energy platform for growth, we need to lessen our heavy reliance on fossil fuels. We should move towards cleaner power generation and simultaneously intensify the development of Renewable Energy or RE as the fifth fuel resources.

8. With greater worldwide awareness on carbon mitigation measures to combat greenhouse gases emissions, there are now more concerted efforts to promote and encourage the use of renewable sources for power generation.

Ladies and Gentlemen,

9. It is to my knowledge that engineers play arguably the biggest role in bringing about change and technological advancement. Your future role as engineers, especially as innovators and nation builders, is even more prominent now. Youths, being the prime assets of our nation should play the important role to lead our country towards the way of sustainability. Perhaps the tiny spark of an idea created through the Chem-e-Car Competition today will expand and become a breakthrough innovation or invention which could then revolutionise fuel source and consumption via alternative clean energy sources for the future of mankind.

10. As Theodore Von Karman once said, “**Scientists study the world as it is, Engineers create the world that never has been**”. I trust this competition will produce inspired young engineers for the country in the future. I am extremely pleased to see IEM’s effort in recognising the important contribution of engineering research in Malaysia; transforming the country into a knowledge economy by organising this activity amongst undergraduates that will be taking the role as prime movers of the country’s development in the future.

11. I was also informed that this competition is now held as an internal competition in various universities to select the teams to participate in the national competition. I am ecstatic that the universities and students are putting in so much effort and enthusiasm in this activity. I am also proud to learn that we also have participants from Indonesia and

Bangladesh. This is indeed truly commendable. I hope that in the future, this competition will garner more participation from other countries within the Asia Pacific region and beyond.

12. I would like to encourage all participants here today to continue with this endeavour as innovation is essential to the economic competitiveness. Through the innovation of existing technologies and products, this would enable the creation of high value returns and subsequently will definitely boost the growth in our economy.

Ladies and Gentlemen,

13. In keeping with its objectives, MOSTI hopes to receive more input from IEM as well as the universities towards the advancement and development of new innovations especially in green technology. Towards this end, I hope that IEM will work closely with the Government especially with my Ministry, to look into the science, technology and innovation development in the country, particularly in the engineering sector.

14. Ultimately, in the pursuit of development, preserving the environment is imperative. Being environmental-friendly and using technological progress to preserve natural beauty are challenges that we must not run away from, as preserving the environment means the preservation of us all.

15. Before I end my speech, I wish to offer my heartfelt congratulations to the winners of the competition today. To all participants of the competition, I would like to express my congratulations for your efforts. For those who fall short, remember these words of wisdom and keep up the good work: "Success is not final, failure is not final, it is courage that counts".

16. In the end, it is not about winning or losing, we should always be actively involved in R&D activities and set our minds to aim high by achieving greater heights where innovation and engineering research are concerned.

17. On that note, with the recital of Bismillahirrahmanirrahim, it is with my great pleasure to declare the 11th Malaysian Chem-e-Car Competition 2016 officially open.

Thank you.