

**KERATAN AKHBAR-AKHBAR TEMPATAN
TARIKH: 8 SEPTEMBER 2015 (SELASA)**

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4.	Jenayah siber di Malaysia rekodkan 6,734 kes setahun	KOSMO
5.	CyberSecurity terima 6,800 aduan keselamatan siber	Harian Metro
6.	6,800 kes jenayah siber di Malaysia	Utusan Malaysia
7.	6,800 kes jenayah siber dilaporkan sehingga Julai	Berita Harian
8.	6,800 cyber security incidents reported	New Straits Times
9.	Many cases of open burning despite ban	The Star
10.	Lingering unhealthy API levels	Malay Mail
11.	Tiga negeri catat IPU tidak sihat	Berita Harian
12.	Dapat rawatan segera sekiranya alami simptom penyakit berkaitan jerebu	BERNAMA
13.	Haze reaches unhealthy levels in 3 states	New Straits Times
14.	Sustaining natural rubber industry	New Straits Times
15.	Ribut petir di Perairan Reef North dan Layang-layang sehinga awal pagi	BERNAMA
16.	Seminggu diperlukan untuk siasat	Utusan Malaysia
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18.	Polis perlukan seminggu kenal pasti pemilik kereta terbakar di Hilir Perak	BERNAMA



MOSTI Tawar Bantuan Kepada Usahawan Tingkatkan Produk Makanan Untuk Eksport

Oleh Abigail Lawrence

MELAKA, 7 Sept (Bernama) -- [Kementerian Sains, Teknologi dan Inovasi](#) menawarkan bantuan kepada usahawan untuk meningkatkan produk makanan mereka bagi tujuan eksport, kata [Timbalan Ketua Setiausaha Dr Zulkifli Mohamed Hashim](#).

Beliau berkata kementerian menawarkan pelbagai bantuan, termasuk penyelidikan dan pembangunan, reka bentuk pembungkusan, kawalan kualiti dan teknik yang dapat menjadikan produk makanan lebih tahan lama untuk eksport.

"Kami menawarkan beberapa pakej yang mungkin dapat membantu mereka dan kami turut memberi mereka peluang untuk mempromosikan produk mereka di luar negara seperti di Milan, Itali di mana pameran produk makanan kini sedang berlangsung.

"Kementerian juga menawarkan pinjaman dan geran kepada mereka yang ingin menaik taraf produk mereka dan mengeluarkan produk makanan dengan inovatif baharu," katanya kepada Bernama selepas menghadiri mesyuarat agung tahunan dan majlis makan malam pertubuhan bukan kerajaan Tangan Di Atas semalam.

Zulkifli berkata terdapat banyak agensi di bawah kementerian seperti SIRIM yang bersedia membantu usahawan berkenaan dalam menggalakkan mereka menjadi inovatif.

-- BERNAMA

KERATAN AKHBAR
THE SUN (EDUCATION FOCUS): MUKA SURAT S08
TARIKH : 8 SEPTEMBER 2015 (SELASA)

■ ENGINEERING CORNER

Expertise in nanotechnology

> Dr Suhaila Sanip on creating energy applications

DR SUHAILA Sanip was intrigued by the chemistry of big molecules, namely polymers. She saw the potential in polymers to be the material of the future due to their excellent properties, such as durability and lightweight.

She is now the Director of Education and Research Services at the University of Southampton Malaysia Campus (USMC). Currently teaching Professional Engineering and Functional Materials on the MEng Mechanical programme, she also oversees the operational process of research management, and curriculum quality control based on both Malaysian and UK standards.

Suhaila has managed to secure a Global Partnership Award from the University of Southampton, UK campus to initiate research collaboration between USMC, University Technology Malaysia (UTM) and Nagoya Institute of Technology Japan.

What is the most challenging project you have been involved in?

Nanotechnology came to the forefront of our shores at the beginning of the millennium. I was involved in a big project under the Ministry of Science Technology and Innovation to develop a hydrogen storage medium for fuel cell application.

This led to numerous literature reviews and brainstorming sessions where our team decided to embark on using carbon nanotubes as a medium of storage due to their high absorbency and most importantly, because they are the safest medium.

We were one of the early teams in Malaysia to produce our own homegrown carbon nanotubes. It was such a joy to see the first images of the tiny tubes with my fellow researchers. I then further explored the applications of carbon nanotubes with polymers for the separation of fluids.

This was one of the most challenging projects as we started from zero knowledge and we managed to produce our own carbon nanotubes in the lab.

What are you currently working on?

I am now working on polymer composites, utilising carbon nanotubes and graphene for energy applications. This is part of a collaborative project with UTM and Nagoya Institute of Technology, Japan to develop mixed-matrix membrane (MMM) consisting of inorganic materials such as carbon nanotubes with polymers.

Membranes are used as filters for the separation of both gases and liquids. MMMs are considered new generation materials which possess the synergistic properties of both inorganic and polymeric materials, potentially making them more robust and durable, especially in harsh conditions.

I am also working on a project to develop Thin Film Transparent Graphene Electrode for Organic Solar Cell (OSC) which is awarded by the Ministry of

Higher Education through their exploratory research grant scheme.

New materials such as 1D and 2D graphene has shown potential as the emerging technology for electrodes in organic solar cells. The use of thin film technology in graphene is expected to revolutionise the manufacturing process by reducing cost as the layers become much thinner and less purification processes will be required.

The OSCs, fabricated using thin film graphene, are expected to show a power conversion efficiency of more than 70%, indicating that a graphene indium-free transparent electrode is a potential substitute for the conventional ITO electrode for use in cost-efficient OSCs.

What is your advice for students entering your field of study?

In whichever field students embark in, they must be willing to work hard and play hard in their undergraduate studies. A well-balanced student life is more important than scoring straight As. This will ensure that when they graduate, students will be able to meet the demands of working life, which in reality is much more challenging than studying.

What characteristics are necessary to be a successful engineer?

It is important to be passionate about the subject you are studying as well as to persevere with all the challenges that each subject presents. Always interact with your peers and lecturers as this helps in your studies.

How do you see your students making an impact when they graduate?

I hope the graduates will be able to contribute towards our nation's growth, especially in realising the Wawasan 2020 objectives. With the rapid development of industries in Malaysia, I expect USMC graduates to be the drivers of change in innovation and technology - both in Malaysia and internationally.



