

KERATAN AKHBAR-AKHBAR TEMPATAN
TARIKH: 18 OGOS 2016 (KHAMIS)

Bil	Tajuk	Akhbar
1.	Sesi percambahan lonjak daya komersial	Berita Harian
2.	RM30 juta Geran Inovasi Sosial telah disalurkan	Utusan Malaysia
3.	MOSTI salur RM32.8j geran Innofund kepada 60 projek inovasi	Sinar Harian
4.	'Pitching sessions yield results'	New Straits Times
5.	Engineering medical solutions	The Star

KERATAN AKHBAR
BERITA HARIAN (PENDIDIKAN) : MUKA SURAT 20
TARIKH : 18 OGOS 2016 (KHAMIS)

KONGRES TEKNOLOGI, SAINS DAN KEJURUTERAAN DUNIA (ESTCON) 2016

Sesi percambahan lonjak daya komersial

➔ Tingkatkan usaha ketengah teknologi di pasaran

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■ Kuala Lumpur

Sesi percambahan adalah pemangkin terbaik dalam memacu daya komersial pelbagai teknologi yang dibangunkan institusi pengajian tinggi (IPT) di negara ini.

Timbalan Menteri Sains, Teknologi dan Inovasi, Datuk Dr Abu Bakar Mohamad Diah, berkata penyelidikan di IPT sukar menentengahkan teknologi di pasaran berikutan beberapa faktor, termasuk gagal menepati kehendak pengguna dan pelabur.

Sehubungan itu, katanya, sesi percambahan yang menjadi titik pertemuan antara penyelidik dan peneraju pasaran merangkumi pelbagai industri dianjurkan untuk melonjak daya pengkomersialan teknologi.



Dr Abu Bakar Mohamad Diah, Timbalan Menteri Sains, Teknologi dan Inovasi.

Lulus tiga jenis dana

"Kementerian Sains, Teknologi dan Inovasi (MOSTI) meluluskan tiga jenis dana penyelidikan iaitu sains dan inovasi untuk kegunaan IPT, manakala prakomersial kepada usahawan.

"Bagaimanapun, kita mengenal pasti punca daya komersial teknologi dibangunkan IPT di Malaysia masih rendah kerana langsung tiada interaksi dengan peneraju pasaran.

"Penganjuran sesi percambahan

dan pameran di pelbagai persidangan mencatat peningkatan daya komersial teknologi IPT yang memberangsangkan," katanya pada sidang media selepas merasmikan penutup Kongres Teknologi, Sains dan Kejuruteraan Dunia (ESTCON) 2016, semalam.

Penganjuran kongres merangkumi sembilan persidangan yang dijalankan serentak, sejak Isnin lalu itu turut menyaksikan pembentangan 1,023 projek penyelidikan pelbagai bidang.

Info

RMKe-10 (data setakat 30 Jun 2016)

- ➔ Jumlah dana diluluskan - RM1,009.6 juta
- ➔ Projek diluluskan - 1,886
- ➔ Projek siap - 766
- ➔ Hasil jualan - RM751.8 juta
- ➔ Peluang pekerjaan - 23,516

RMKe-9

- ➔ Jumlah dana diluluskan - RM2,896.75
- ➔ Projek diluluskan - 4,566
- ➔ Projek siap - 3,933
- ➔ Hasil jualan - RM3,431.54 juta
- ➔ Peluang pekerjaan - 14,800

Abu Bakar berkata, penilaian MOSTI setakat 30 Jun lalu menunjukkan kadar komersial teknologi dibangunkan IPT melalui Rancangan Malaysia Ke-10 (RMKe-10) meningkat kepada 12 peratus, berbanding sekitar lapan peratus menerusi RMKe-9.

40 projek penyelidikan

Sementara itu, Naib Canselor Universiti Teknologi PETRONAS (UTP), Datuk Dr Abdul Rahim Hashim, berkata 40 projek penyelidikan terbabit dalam sesi percambahan ESTCON 2016, peningkatan 53.8 peratus berbanding ESTCON 2014.

Beliau berkata, semua projek penyelidikan yang dibentangkan untuk penilaian pelabur dan peneraju industri itu kini akan melalui proses penjajaran semula supaya menepati kehendak pasaran.

"Ini impak sesi percambahan yang dianjurkan ESTCON supaya prospek teknologi dibangunkan IPT dan pereka bebas berpotensi untuk diketengahkan di pasaran tempatan serta antarabangsa.

"Ia turut memberi impak kepada masyarakat dan pembangunan insan kerana mewujudkan peluang pekerjaan di pelbagai industri perkhidmatan, sekali gus meningkatkan sosioekonomi sektor hiliran," katanya.

KERATAN AKHBAR
UTUSAN MALAYSIA (DALAM NEGERI) : MUKA SURAT 11
TARIKH : 18 OGOS 2016 (KHAMIS)

RM30 juta Geran Inovasi Sosial telah disalurkan

JASIN 17 Ogos - Kementerian Sains, Teknologi dan Inovasi telah meluluskan pengeluaran RM25 juta hingga RM30 juta daripada dana RM50 juta Geran Inovasi Sosial sejak tahun lalu sehingga kini.

Timbalan Menteri, Datuk Dr. Abu Bakar Mohamad Diah berkata, jumlah tersebut dikeluarkan kepada kira-kira 85 peratus daripada 500 permohonan yang diterima sepanjang tempoh berkenaan.

Katanya, geran yang diluluskan mempunyai nilai berbeza mengikut pelaksanaan kerja-kerja berkaitan inovasi dalam pelbagai bidang.

"Geran Inovasi Sosial ini diberikan kepada penyelidik yang mempunyai produk baharu yang boleh diketengahkan dan dikomersialkan dengan syarat mesti membawa kebaikan kepada komuniti atau masyarakat.

"Jika produk inovasi pemohon menepati kriteria tersebut, kita tidak teragak-agak untuk meluluskan geran itu, tambahan pula produk-produk dihasilkan melalui geran ini sudah banyak yang berjaya serta membuahkan hasil baik," katanya.

Beliau berkata demikian selepas menyerahkan geran inovasi sosial komuniti kepada sekumpulan penyelidik Projek Inovasi Portable Eco Supply di Jeti Pantai Siring, Merlimau di sini hari ini.

Yang turut hadir, Ahli Parlimen Jasin, Datuk Ahmad Hamzah; Ahli Dewan Undangan Negeri (ADUN) Serkam, Datuk Zaidi Attan dan Pengarah Politeknik Merlimau, Zolkarnain Jobshi.

Abu Bakar berkata, geran berkenaan membawa faedah kepada masyarakat dan berikutan itu kementerian bakal menganjurkan Ekspo Pengkomersialan Produk sempena Tahun Pengkomersialan Malaysia yang dijangka diadakan di Pusat Dagangan Dunia Putra, Kuala Lumpur.

Dalam pada itu, beliau berkata, pihaknya telah meluluskan peruntukan RM102,000 melalui Geran Inovasi Sosial Komuniti bagi produk inovasi dihasilkan sekumpulan penyelidik Politeknik Merlimau.

Menurutnya, produk tersebut boleh menjana tenaga elektrik tanpa menggunakan generator dengan mengguna solar panel sebagai tenaga tambahan dan selebihnya boleh dicaskan di rumah.

"Kita memberi tempoh 12 bulan kepada 10 penyelidik dari Politeknik Merlimau ini untuk menghasilkan 100 unit produk ini sebelum diserahkan kepada nelayan-nelayan di sini.

"Kita mahu produk ini secepat mungkin dan diserahkan kepada para nelayan di Pantai Siring ini supaya mereka dapat menggunakannya serta menguar-uarkan kepada masyarakat," katanya.



ABU BAKAR MOHAMAD DIAH (dua dari kiri) melihat 'Portable Eco Supply' dihasilkan Jabatan Kejuruteraan Elektrik Politeknik Merlimau, Melaka, semalam. - BERNAMA

KERATAN AKHBAR
SINAR HARIAN (NASIONAL) : MUKA SURAT 6
TARIKH : 18 OGOS 2016 (KHAMIS)

Mosti salur RM32.8j geran Innofund kepada 60 projek inovasi

JASIN - Kementerian Sains, Teknologi dan Inovasi (Mosti) menyalurkan RM32.8 juta daripada peruntukan RM50 juta dalam geran Innofund kepada 60 projek inovasi sepanjang tahun ini.

Timbalan Menteri berkenaan, Datuk Dr Abu Bakar Mohamad Diah berkata, dana itu, yang memberi peruntukan maksimum RM500,000 bagi setiap permohonan, bertujuan mengkomersialkan setiap produk yang dihasilkan, selain membolehkan produk inovasi negara membantu masyarakat.

"Setiap tahun, kita menerima banyak permohonan bagi dana Innofund dan tapisan dilakukan sebelum kelulusan dibuat.

Tahun lepas, kita menerima kira-kira 500

permohonan dan 85 peratus daripadanya sudah diluluskan.

"Banyak produk inovasi diperkenal dan dikomersil di bawah dana ini... kita akan kumpulkan semua produk termasuk yang dihasilkan di bawah semua kementerian yang menerima geran ini pada Ekspo Pengkomersilan pada November depan," katanya kepada media di Merlimau, semalam.

Terdahulu, beliau menyerahkan cek bernilai RM102,000 bagi geran Innofund kategori Community Innovation Fund (CIF) kepada Pengarah Politeknik Merlimau, Zolkarnain Jobshi untuk melaksanakan projek Portable Eco Supply yang dibangunkan Jabatan Kejuruteraan Elektrik Politeknik Merlimau. - *Bernama*



Abu Bakar (dua, kiri) melihat Portable Eco Supply dihasilkan Jabatan Kejuruteraan Elektrik Politeknik Merlimau, semalam.

'Pitching sessions yield results'

MEETING POINTS: Such interactions help researchers, industry captains push commercialisation of technology, says deputy minister

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PITCHING sessions are crucial for academics and researchers to commercialise their products, said Deputy Science, Technology and Innovation Minister Datuk Dr Abu Bakar Mohamad Diah.

He said researchers faced numerous obstacles in marketing their products.

This, he said, was because their innovations were not able to meet the needs of consumers and investors.

Abu said such matchmaking sessions were meeting points for researchers and industry captains to push the commercialisation of technology.

"We have identified that the lack of direct interaction between them (researchers and industry captains) is the reason why commercialisation is low among researchers in academic institutions."

He deemed it as the "missing link" hampering the ministry's commercialisation campaign.

Abu said conferences such as the World Engineering, Science and Technology

Congress (Estcon), which slotted pitching sessions, yielded encouraging results.

He also said exhibitions were helpful, adding that the ministry funded the research and development stages of products.

"This is for the first of two research and innovation stages."

"However, the funding for pre-commercialisation is given to companies," said Abu after closing Estcon 2016 here yesterday.

Abu said the ministry's assessment, as of June 30 this year, showed that the commercialisation rate for technologies developed by higher learning institutions within the 10th Malaysia Plan had increased by 12 per cent compared with eight per cent during the 9th Malaysia Plan.

Universiti Teknologi Petronas Vice-Chancellor Datuk Dr Abdul Rahim Hashim said 40 projects were involved in the pitching session during Estcon 2016.

This was a 53.8 per cent increase from Estcon 2014.

He said the research projects presented for



assessment by investors and captains of industries would be realigned to market demands with the help of qualified trainers.

"The impact of Estcon pitching sessions is that the technologies created by these higher learning institutions achieve better prospects and reach their potential to bring the products to local and international markets."

"It also impacts society by developing human capital as it creates more jobs in the service industry and boosts downstream socio-economic sectors," said Rahim.

Nine conferences took place simultaneously during Estcon 2016.

More than 1,000 project papers were presented at the congress.

The homegrown congress is deemed one of the world's largest gatherings as it brought together more than 1,200 delegates from 40 countries.

Delegates included academics, government representatives, industry players and the public.



Datuk Dr Abu Bakar Mohamad Diah

The event was supported by Agensi Inovasi Malaysia and Yayasan Universiti Teknologi Petronas.

Universiti Teknologi Malaysia (UTM) and Institut Teknologi Petroleum Petronas Sdn Bhd (Instep) inked a memorandum of agreement (MoA) and a memorandum of understanding (MoU) during the Estcon 2016 here yesterday to facilitate a project to develop a Smart Optical Fibre Sensing System to track the migration of oil flow.

UTM was represented by Vice-Chancellor Professor Datuk Dr Wahid Omar, while Instep was represented by Vice-Chancellor Datuk Dr Abdul Rahim Hashim.

The RM4 million research and development project is poised to be the first system in the world to boost the production of deep sea petroleum.

The project will be conducted by UTM's Advanced Membrane Technology Research Centre (Amtec).

"UTM will use fibre optic technology to identify the source of fossil fuel in deep sea exploration."

"This will be done through innovation, research and transfer of technology," said Amtec director Professor Dr Ahmad Fauzi Ismail.

The product is also expected to be commercialised if it achieves its goals.

Five academics and two technical support staff are involved in the project, which provides a platform to share knowledge, expertise, equipment and exchange of students and staff members.

KERATAN AKHBAR
THE STAR (EDUCATION GUIDE) : MUKA SURAT 6
TARIKH : 18 OGOS 2016 (KHAMIS)

POP quiz: What field do you study if you want to make the world a better place by developing better ways of detecting diseases like breast cancer and brain lesions, enhancing medical diagnostic processes and helping patients speed up their recovery?

Answer: Engineering, of course. Multimedia University (MMU) Centre of e-Health in the Faculty of Engineering and Technology (FET) Research head, Prof Ir Dr Sim Kok Swee, describes engineering as the enabler of modern medicine.

"Many people tend to forget modern medicine is possible only with engineering," he says. "Even at the most rudimentary level, it is the combination of medicine and engineering that enables medical practitioners to save lives every day around the world."

This relationship is visible even upon a brief visit to a general practitioner. A stethoscope used together with a blood pressure gauge is used to get a starting point for diagnosis – the manufacture of both is possible only through the application of solid engineering principles.

Magnetic Resonance Imaging (MRI) machines, ultrasound scanners, endoscopes and many other equipment help doctors diagnose and medicate patients efficiently in cost effective ways. Past treatment, equipment such as motorised wheelchairs, body lifters and stair climbers help patients recuperate and even adapt to new ways of life.

Simply put, in every link of the chain of medicine, there is a place for engineering.

"The potential and prospect for engineering in medicine is vast,"

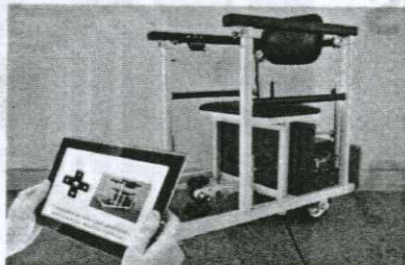
Engineering medical solutions



Communications and Multimedia Deputy Minister Datuk Jailani Johari (left) congratulating Prof Dr Sim Kok Swee on his achievement in receiving two Champion Certificates of WSIS Prizes 2016, which was held in Geneva, Switzerland, recently.

says Prof Sim. "Advances in medicine are made all the time and need to be implemented via engineering before they can systematically reach doctors and patients."

He says that opportunities are not limited to new discoveries, either. "Just look at the blood pressure gauge, for example. A basic one using a manually inflated cuff and mercury scale does the job perfectly, but through engineering, a digital and automated one was developed. It is as accurate as the basic one and a lot easier to use and has become very popular. An engineer who takes the time to get to know the medical field better



Engineering as the enabler of modern healthcare has made possible for the invention of motorised wheelchair with its incorporated system to ease the patient.

would find a lot of opportunities."

Prospective and even current engineering students should take note of this, since Prof Sim is personally involved in medical engineering and speaks from experience. He owns no less than four patents and over 40 copyrights in a number of engineering-enabled medical solutions, and has won at least 50 awards at national and international levels for his works.

Recently, Prof Sim received praise for a number of projects, one of which is a system that allows for intelligent real-time automatic probing for breast cancer detection by MRI. This stand-alone system, which he has patented, enables the diagnosis of tumours in human mammary glands by means of analysing a series of images obtained through

an MRI. It features a comprehensive database of reference cases to help doctors form a good diagnosis.

Another system he has developed is called the Early Infarct Brain Detection System, a software system that enables doctors to find lesions in the brains of potential stroke victims. This project is highly significant because statistics show that one third of strokes caused by cerebral infarction result in death.

Prof Sim does not limit himself to engineering computer-based medical solutions. He has also developed a motorised wheelchair that incorporates a system enabling patients with weak legs to exercise on the wheelchair itself. Since the exercise equipment goes wherever the patient goes, the opportunity to exercise and strengthen the patient's legs is

greatly improved, speeding up recovery.

For his hard work and dedication to engineering, Prof Sim was named Top Research Scientist Malaysia (TRSM) by the Academy of Sciences Malaysia on 2014, and also awarded two Champion Certificates in WSIS Prizes 2016 in conjunction with WSIS Forum 2016, held from May 2 to 6 in Geneva, Switzerland, through his projects "Spatial Based Dynamic Contrast Enhanced Magnetic Resonance Imaging 3D Visualization" and "Early Infarct Detection for Brain Images".

Recently, Prof Sim received the excellent oral presentation award with the title "Fast Fourier Analysis and EEG Classification Brainwave Controlled Wheelchair" at the 2016 International Second Conference on Control Science and Systems Engineering (ICCSSE2016) Nanyang Technology University, Singapore.

These outstanding awards are the shining example to current and future engineers everywhere looking to make the world a healthier place. The prospects of applying engineering in the world of medicine seem limitless.

■ To learn more about how you could pursue engineering at MMU and contribute to the health of the world, visit www.mmu.edu.my or call 1300 800 668.