

KEMENTERIAN TENAGA, SAINS, TEKNOLOGI, ALAM SEKITAR DAN PERUBAHAN IKLIM

Bil	Berita	Media	Capaian Berita Penuh
1.	<u>Solar modules to provide electricity to rural S'wak villages</u> He said the company is encouraged by a recent statement made by Minister of Energy, Technology, Science, Climate Change and Environment Yeo Bee Yin that solar power will be among the solution since there are rural areas in Sarawak without access to electricity.	The Borneo Post	Klik pada tajuk berita
2.	<u>Value of SPLASH acquisition consistent with various appraisals/ RM2.55b for Splash takeover 'consistent'</u> He also said that the federal government via the Energy, Technology, Science, Climate Change and Environment Ministry had appointed an international evaluator and their evaluations were similar to those of RHB's.	The Sun Daily	Rujuk lampiran 1 atau klik pada tajuk berita
3.	<u>Boosting a two-way link in research</u> Energy, Science, Technology, Environment and Climate Change Minister Yeo Bee Yin recently voiced her concerns on the lack of researchers working in the industry.	New Straits Times	Rujuk lampiran 2
4.	<u>MTDC bangun hab industri 4.0</u> Perbadanan Pembangunan Teknologi Malaysia (MTDC) menjalin usaha sama dengan 21 syarikat tempatan standard Industri 4.0 (i4.0) bagi membangunkan hab perkhidmatan dan latihan yang menghimpunkan pakar industri dalam semua bidang di negara ini.	Berita Harian	Rujuk lampiran 3 atau klik pada tajuk berita
5.	<u>IGEM2018 targets RM2.5 bln in business leads</u> In a statement today, event organiser, Malaysian Green Technology Corporation (GreenTech Malaysia) said the event would also feature the business matching programme, with support from various agencies such as the Malaysian Investment Development Authority, Malaysia	BERNAMA	Klik pada tajuk berita

	External Trade Development Corporation and the Malaysian Timber Certification Council.		
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TEMPATAN

Bil	Berita	Media	Capaian Berita Penuh
6.	<u>Sukuk anak syarikat TNB diiktiraf</u> Southern Power Generation Sdn Bhd (SPG), anak syarikat 51 peratus milik Tenaga Nasional Bhd (TNB) telah diiktiraf sebagai 'Pembiayaan Projek Terbaik 2017' pada Majlis Anugerah Jadual Liga Pengurus Utama MARC 2017, di sini, baru-baru ini.	Utusan Malaysia	Rujuk lampiran 4
7.	<u>Cradle Fund bantu usahawan teknologi</u> Cradle Fund Sdn. Bhd. (Cradle Fund) merupakan sebuah syarikat dibawah Kementerian Kewangan yang ditubuhkan bagi membangunkan usahawan teknologi di negara ini termasuk memberi dana kepada syarikat-syarikat tersebut.	Kosmo	Rujuk lampiran 5
8.	<u>Dr M: Rubber innovation must go on</u> This 3-day conference features 150 speakers from all over the world presenting research into green technology that optimises fuel input, automated packaging and product innovation.	New Straits Times	Rujuk lampiran 6 atau klik pada tajuk berita
9.	<u>Bahaya Jerebu</u> Jerebu yang melanda Malaysia susulan pembakaran terbuka yang berlaku di negara jiran, baru-baru ini, pastinya memberikan kerisauan kepada masyarakat terutama kesan terhadap kesihatan mereka.	Berita Harian	Rujuk lampiran 7
10.	<u>Sharing the love for science</u> As a biennial event that began in 2016, it was initiated to stimulate and cultivate society's interest in Science, Technology, Engineering and Mathematics (STEM), which would ensure a brighter future for the younger generation and the country's economy.	New Straits Times	Rujuk lampiran 8

11.	<u>Festival Sains tarik minat warga Kuantan</u> Mereka beranggapan mata pelajaran Sains sangat sukar dan inilah sebab utama mengapa pelajar tidak menyukainya.	Sinar Harian	Rujuk lampiran 9
12.	<u>600 rumah dibadai ribut</u> Ribut yang melanda beberapa daerah di Terengganu menyebabkan hampir 600 rumah mengalami kerosakan teruk.	Harian Metro	Rujuk lampiran 10
13.	<u>Pupuk minat terhadap STEM</u> Sains, Teknologi, Kejuruteraan dan Matematik (STEM) dianggap antara bidang yang kritikal di negara ini berikutan semakin berkurangan pelajar memilih pengajian itu sama ada di peringkat sekolah mahupun institusi pengajian tinggi (IPT).	Utusan Malaysia	Klik pada tajuk berita
14.	<u>Trina Solar launches Trinahome in Malaysia</u> “Trina Solar sees there is ample opportunity to increase renewable energy’s share of Malaysia’s energy mix,” Trina Solar senior sales director Asia Pacific and Middle East, Ku Jun-Heong said in a statement.	The Star	Klik pada tajuk berita

ANTARABANGSA

Bil	Berita	Media	Capaian Berita Penuh
15.	<u>RangerBot buru perosak terumbu</u> Sebuah robot kapal selam dengan keupayaan memburu dan membunuh tapak sulaiman mahkota berduri atau dikenali sebagai “Crown of Thorns” yang menjadi pemusnah kawasan terumbu terkenal, Great Barrier Reef diperkenalkan oleh sekumpulan penyelidik baru-baru ini.	Utusan Malaysia	Rujuk lampiran 11
16.	<u>Taufan Jebi gegas Jepun/ Jepun keluar nasihat berpindah akibat Taufan Jebi</u> Jepun mengeluarkan nasihat berpindah kepada hampir 300,000 penduduk dan membatalkan	Berita Harian	Rujuk lampiran 12

	beratus penerbangan berikutan angin kencang dan hujan lebat akibat ketibaan Taufan Jebi di bahagian utara negara itu.		
17.	<u>Vietnam floods leave 14 dead</u> Floods and storms have left 14 people dead in northern and central Vietnam, state media reported.	The Star	Rujuk lampiran 13
18.	<u>US Gulf Coast bracing for Hurricane Gordon</u> In its latest alert, the US National Hurricane Center (NHC) said Gordon was located about 305 kilometers (190 miles) east-southeast of the Mississippi River and packing maximum sustained winds of 100 kilometers per hour.	Malay Mail	Rujuk lampiran 14
19.	<u>Fears over climate change hit highest level in a decade following heatwave, study says</u> British people's concern over climate change hit the highest level in almost a decade amid the record-breaking heatwave which swept across Britain this summer, a new poll has revealed.	The Independent	Klik pada tajuk berita
20.	<u>A.I. could spur global growth as much as the steam engine did, study shows</u> Artificial intelligence could contribute an additional 1.2 percent to annual gross domestic product growth for at least the next decade, according to a simulation from McKinsey Global Institute.	CNBC News	Klik pada tajuk berita
21.	<u>China active in fighting global cybercrimes</u> China has been actively participating in the cooperation and governance of international cyber security, Chinese experts said on Tuesday. They urged the government to include cyber security construction in the country's growing interests overseas.	Global Times	Klik pada tajuk berita
22.	<u>Behind the scenes: How Mars sources renewable energy</u> Its Sustainable in a Generation plan details Mars' commitment to procure 100 percent renewable energy. Mars is plowing full speed ahead toward these goals and recently, Mars Australia signed 20-year power purchase agreements (PPAs) to	Green Biz	Klik pada tajuk berita

	generate the equivalent of 100 percent of its electricity from renewable energy by 2020.		
23.	<u>'Art can play a valuable role': climate change installations appear in New York</u> The existential threat of climate change is being spelled out to New Yorkers via a selection of flashing highway signs that have been placed around the city.	The Guardian	Klik pada tajuk berita

LAMPIRAN 1

THE SUN DAILY (NEWS WITHOUT BORDER): MUKA SURAT 6
TARIKH: 5 SEPTEMBER 2018 (RABU)

RM2.55b for Splash takeover 'consistent'

SHAH ALAM: The RM2.55 billion valuation by the Selangor government to acquire a utility firm to complete the state's water restructuring exercise is consistent with valuations by independent appraisers, said Menteri Besar Amirudin Shari.

He pointed out that RHB investment bank, which was appointed by the state, had placed the acquisition at between RM2.48 billion and RM3.024 billion, based on Syarikat Pengeluar Air Selangor Holdings' (Splash) nett book value on March 31.

He added the federal government, via the Energy, Technology, Science, Climate

Change and Environment Ministry, had appointed an international evaluator and its evaluation were similar.

"On July 5, the ministry's evaluator sent a letter suggesting a value of RM2.7 billion. We thought it was an amount we could consider, so we proceeded with the offer," he said during the 14th Selangor State Legislative Assembly sitting yesterday.

Amirudin said residents in Selangor will continue to receive 20 cubic metres of free water.

He added the state government will not increase water tariffs to ensure that the people are not burdened.

LAMPIRAN 2

NEW STRAITS TIMES (HIGHER ED): MUKA SURAT 6

TARIKH: 5 SEPTEMBER 2018 (RABU)

COVER STORY

Boosting a two-way link in research

ZULITA MUSTAFA
zulita@nst.com.my

ENERGY, Science, Technology, Environment and Climate Change Minister Yeo Bee Yin recently voiced her concerns on the lack of researchers working in the industry.

She said that research and development (R&D) in the country focuses on academic research but the outcome is not utilised in related industries.

As such, this has deterred the development of advanced technologies and products.

It was reported in the *New Straits Times* that some 78 per cent of the country's full-time researchers work at universities while only 12.3 per cent work in the industry.

Yeo added that the country has to work towards the direction where R&D will no longer be limited to academia but also through collaboration with the industry.

The ministry will be allocating at least 50 per cent of research and development funds to experimental research next year.

"The government wants to create an ecosystem that encourages industries to thrive and allows talents to grow."

Last year, 70.5 per cent of R&D expenditure was spent on applied research, with only 8.6 per cent allocated to experimental research.

"If we have an ecosystem supportive of new technologies, which allow industries to develop quickly in this fast-changing world, we will be able to overcome the challenges we face in this disruptive world."



The industry, particularly SMEs, and the university need to learn to trust each other and be more open. Then we can better work together and allow easy access and sharing of talents as well as facilities.

NOORSAADAH ABD RAHMAN
UM deputy vice-chancellor (research and innovation)

ACADEMIC RESEARCH

Universiti Kebangsaan Malaysia deputy vice-chancellor (UKM) [research affairs and innovation] Professor Dr Mohd Ekhwan Toriman said researchers excel at university because passion for research inspires students.

Mohd Ekhwan said universities allow researchers to be independent and explore transdisciplinary research compared to those working at companies where the work scope is limited.

"Working at the university exposes researchers to the latest research and technology revealed at international conferences and facilitates networking with researchers from other tertiary institutions.

"There is no requirement for researchers at companies to attend international conferences, thus limiting their opportunity for networking," he added.

Furthermore, he said researchers at the university share their findings and latest discoveries with students.

"Most universities provide researchers with facilities to carry out their work. They benefit from grants and incentives to conduct their research independently."

University of Malaya (UM) deputy vice-chancellor (research and innovation) Professor Dr Noorsaadah Abd Rahman said researchers at the university do research to generate new knowledge that will push, not



Mohd Ekhwan Toriman



Researchers at both the university and industry are equally important. PICTURE COURTESY UM

only the boundary of knowledge but also create new technology.

She said those working in the industry usually focus on experimental development research such as optimisation and scaling up research.

The industry should commercialise the output from university research.

"Researchers at both the university and industry are equally important. Good collaboration between the two boosts the flow of in-

formation between them."

ISSUES

UKM's Institute of Systems Biology senior research fellow Dr Mohd Firdaus Raih said academic research has multiple aims which are usually long-term. Research into fundamental areas of science and translating findings into useful technology take time.

He added that such types of research are not sustainable in the private sector due to

LAMPIRAN 2 (SAMBUNGAN)

NEW STRAITS TIMES (HIGHER ED): MUKA SURAT 7

TARIKH: 5 SEPTEMBER 2018 (RABU)



CORPORATE COMMUNICATION UNIT

the need to serve the balance sheet and investors, especially so in Malaysia.

"Academic research provides technologically-and research competent-manpower for the private sector. In Malaysia, R&D is university-centric because the capacity to carry out research has not been present in the private sector and as such it is common to associate research with universities and not the

private sector.

"This is slowly changing but we need catalysts and incentives to hasten the progress. We can overcome this by creating a conducive R&D ecosystem and providing incentives for both sides."

Noorsaadah said to move the output from academic research to the industry requires different skills and large investment.

For example, in science and technology, academic research tends to be small scale to test a hypothesis and/or prove a concept.

"Once this is achieved, research needs to be carried out to upscale the output. In advanced nations such as the United States and Japan, this type of research known as experimental development research is usually carried out by and at the industry.

"In Malaysia, our small and medium enterprises (SMEs) are not ready for such research or do not have enough funds to invest in such research and convert academic research output into a viable product in the industry.

"In addition, SMEs here do not have enough human capacity skilled enough to do the specialised research required for optimisation and/or up-scaling in experimental development research."

BUILDING AN ECOSYSTEM

There is a necessity for an ecosystem that encourages industries to thrive and allow talents to grow. The ecosystem should also support new technologies, which allow industries to develop quickly in this fast-changing world.

Mohd Ekhwan said the industry needs the mirror lab at UKM so that research elements can be felt by industry researchers.

"They need to conduct research at university on rotation to maintain a research culture and carry out impact assessments," he added.

Mirror lab is a collaboration between universities and the industry, without the need for the latter to develop its own facilities.

At UKM, the Centre for Collaborative Innovation was set up as the driving force in the innovation ecosystem, UKM intellectual property, technology transfer and commercialisation are managed by the centre, which also promotes the culture of innovation and the transfer of UKM-developed technology for the benefit of society.

"It also generates unrestricted income to support research and education, and develop new enterprises from research and technological innovation and create value or multiplier effect in the economy."

Mohd Firdaus added that talent growth needs to come first before the industry can thrive, thus creating an ecosystem that is able to capitalise on the available capacity.

"In Malaysia, we have a very limited post-doctoral training system. In the West, Australia, Japan and Korea, many doctoral graduates go on to take up post-doctoral positions for three to five years.

"This is perhaps when they are at peak performance capacity of their research careers. After this post-doctoral research stint, they take up faculty posts at university or appointments with more leadership and management responsibilities.



Mohd Firdaus Raih

"However, this is not the case here. Doctoral graduates at their peak are in management or faculty positions with responsibilities not related to research. This is what we need to address."

Noorsaadah said fostering collaborative projects between universities and the industry is a good way to encourage a thriving research ecosystem in the latter.

One way to drive research in the industry

is to have it set up laboratories on campus.

"This will enable an easier flow of research output between the university and the industry. In addition, graduate students should be encouraged to spend time doing research in the industry, especially if the work is connected with industrial output.

"The then Higher Education Ministry initiated the 'industrial PhD' programme where doctoral candidates did research in the industry, working on an area related to the industry.

"Research culture and activities in the industry thrived under the initiative. In the United Kingdom's Industrial Cooperative Awards in Science and Technology programme, industries and businesses take the lead in arranging projects with an academic partner of their choice and provide studentship or fellowship to doctoral candidates to carry out research."

Mohd Firdaus added that universities and the industry should be allocated funds and given incentives to nurture a post-doctoral training ecosystem.

"But ideally, we want some of them to also form up start-up companies in high-technology domains such as telecommunications, nanotechnology and biotechnology.

"Such start-ups usually remain not too far off from their intellectual birthplace. For example, innovation hotbeds such as Silicon Valley, Bay Area in San Francisco and Oxford-Cambridge in England are areas in close proximity to some of the world's top universities."

In Malaysia, there is such a corridor which extends from Petaling Jaya to Bangi/Serdang and on to Nilai.

"If companies are interested in having their R&D situated along this corridor, there may be advantages. In such a situation, the benefits go both ways. The start-up can benefit from the infrastructure available on campus while the university has an avenue for making its research benefit the people through the commercialisation of technology."

SYNERGY

Noorsaadah said: "At UM, we encourage researchers to carry out contract research and consultancy work for the industry to add value to products in addition to incorporating newer technology.

"The industry, particularly SMEs, and the university need to learn to trust each other and be more open.

"Then we can better work together and allow easy access and sharing of talents as

well as facilities."

Mohd Ekhwan said the benefits of university-industry collaboration for skills development (education and training, innovation and technology transfer) and the promotion of entrepreneurship (start-ups and spin-offs) that can benefit researchers should be highlighted.

"We should provide more flexibility in university-industry partnerships by considering formal and informal collaborations. Formal arrangements include equity partnerships, contracts, research projects and patent licensing while informal partnerships include human capital mobility, publications and interactions at conferences and expert groups.

"Offer the flexibility of short- or long-term collaboration, thus encouraging researchers to define their preference," he added.

"Another way to have more researchers in the private sector is to privatise research. For example, universities have facilitated their R&D to be commercialised as start-up companies.

"But some research at universities and government institutes can also be privatised. Once privatised, the companies must be in the business of research, not the business of making profits," said Mohd Firdaus.

Public sector laboratories that are privatised must be allowed the independence to operate as a private company without interference from their original parent agency. They can hire outside of the civil service system and operate outside of government regulations.

"This has advantages because the companies can hire the right people and pay competitive salaries. By operating outside of the government bureaucracy, for example, purchases can be made fast and simple — even buying equipment on eBay if appropriate.

"Many colleagues in the west have purchased equipment on eBay for a fraction of the original cost."

A synergy can be reached if the industry take a more active role in postgraduate training programmes.

For example, a private sector partner can identify problems that can be worked on by graduate students, enabling universities to work with the private sector to find solutions.

Therefore, the role of the university in training expert human capital will be served, and the needs of the company will also be met.

"Graduates from such collaborations can continue as employees with the company thus increasing research capacity in the private sector."



One way to drive research in the industry is to have it set up laboratories on campus.

LAMPIRAN 3

BERITA HARIAN (BISNES): MUKA SURAT 55

TARIKH: 5 SEPTEMBER 2018 (RABU)



[KHAIRUL AZHAR AHMAD / BH]

Norhalim (dua dari kanan) bersama Penasihat Myedtech Community, Dr Syahril Idris (dua dari kiri) membuat pertukaran dokumen selepas menandatangani MoU di Menara Tun Razak, Kuala Lumpur, semalam. Turut sama, Pengarah Pejabat Ketua Pegawai Eksekutif MTDC, Dr Zainul Fadzuiddin Zainuddin (kanan) dan Penasihat Myedtech Community, Mohd Yuzairin Md Yunus.

MTDC bangun hab Industri 4.0

➔ Usaha sama dengan 21 syarikat dijalin himpun pakar dalam semua bidang

Oleh Sri Ayu Kartika Amri
kartika@nstp.com.my

Perbadanan Pembangunan Teknologi Malaysia (MTDC) menjalin usaha sama dengan 21 syarikat tempatan standard Industri 4.0 (i4.0) bagi membangunkan hab perkhidmatan dan latihan yang menghimpunkan pakar industri dalam semua bidang di negara ini.

Ketua Pegawai Eksekutif MTDC, Datuk Norhalim Yunus berkata, pihaknya komited menjadi peneraju industri 4.0 dan menyediakan platform

yang membolehkan perusahaan kecil dan sederhana (PKS) mengadaptasi serta menyesuaikan diri dengan kehadiran i4.0 di Malaysia.

Katanya, inisiatif MTDC dengan Myedtech Community ini juga menampilkan penyedia penyelesaian i4.0 tempatan yang mempunyai kepakaran masing-masing kepada pemain industri.

Revolusi industri

"Malaysia mempunyai syarikat tempatan i4.0 berbakat yang boleh diketengahkan dalam menghadapi revolusi industri baharu. Usaha sama MTDC dengan 21 syarikat i4.0 ini turut membuka ruang mendekatkan lagi kerjasama PKS dengan penyelidik universiti (sektor pendidikan) bagi meneroka lebih banyak peluang dalam industri 4.0.

"Hab yang dibangunkan ini juga membantu syarikat pemula niaga tempatan dan menggalakkan inovasi keusahawanan baru i4.0," katanya pada sidang media selepas majlis menandatangani perjanjian

persefahaman MTDC dengan 21 syarikat i4.0 di Kuala Lumpur, semalam.

Norhalim berkata, hab perkhidmatan dan latihan itu diharapkan dapat mengurangkan ketergantungan terhadap syarikat i4.0 asing sekali gus sebagai persediaan PKS untuk bersaing di pasaran ASEAN.

Beliau berkata, MTDC sentiasa menggalakkan syarikat tempatan untuk bersedia dan meningkatkan keupayaan mereka.

Antara syarikat i4.0 yang menjalin kerjasama dengan MTDC termasuk Close Loob Sdn Bhd, Urban Mobility Asia Sdn Bhd, Zeeraffe Digital, Comrade Digital Labs dan Dagang Algomecs Sdn Bhd.

Melalui Rancangan Malaysia ke-9 (RMK-9) dan ke-10 (RMK-10), syarikat yang menerima Dana Pengkomersialan Penyelidikan dan Pembangunan (CRDF) dan Dana Perolehan Teknologi (TAF) daripada MTDC telah berjaya menjana jualan sebanyak RM1.974 bilion, mewujudkan 465 hak harta intelek dan 5,261 pekerjaan baharu.



Inisiatif MTDC dengan Myedtech Community ini juga menampilkan penyedia penyelesaian i4.0 tempatan yang mempunyai kepakaran masing-masing kepada pemain industri"

Norhalim Yunus,
Ketua Pegawai
Eksekutif MTDC

LAMPIRAN 4
UTUSAN MALAYSIA (UTUSAN BIZ): MUKA SURAT 13
TARIKH: 5 SEPTEMBER 2018 (RABU)



TENAGA NASIONAL
Better. Brighter.

Sukuk anak syarikat TNB diiktiraf

KUALA LUMPUR 4 Sept. - Southern Power Generation Sdn. Bhd. (SPG), anak syarikat 51 peratus milik Tenaga Nasional Bhd. (TNB) telah diiktiraf sebagai 'Pembiayaan Projek Terbaik 2017' pada Majlis Anugerah Jadual Liga Pengurus Utama MARC 2017 di sini, baru-baru ini.

Dalam kenyataan hari ini, TNB berkata, pengiktirafan oleh Malaysian Rating Corporation Bhd. (MARC) itu berdasarkan pencapaian SPG menerbitkan Sukuk Wakalah bernilai RM3.7 bilion pada Oktober 2017.

Sukuk Wakalah tersebut, yang diberi penarafan AA-IS /Stabil oleh MARC, adalah bagi membiayai pembangunan Projek Turbon Gas Kitaran Gabungan (CCGT) Trek 4A dengan kapasiti 1,440 megawatt (mW) di Pasir Gudang, Johor.

SPG, sebuah syarikat khas yang ditubuhkan untuk pembangunan projek CCGT berkenaan adalah usahasama antara TNB dan SIPP Energy Sdn. Bhd. yang memiliki 49 peratus baki kepentingan dalam SPG.

Projek yang bernilai kira-kira RM4.6 bilion tersebut dibiayai menerusi gabungan kewangan projek serta ekuiti dan dijangka memulakan operasi komersial berjadual pada 1 Julai 2020.

Loji janakuasa yang kini dalam peringkat awal pembinaan di Zon Perindustrian Pasir Gudang itu akan mengukuhkan keupayaan TNB memberikan bekalan elektrik berdaya harap dan stabil menerusi Grid Nasional. - BERNAMA

LAMPIRAN 5
KOSMO (NEGARA): MUKA SURAT 2
TARIKH: 5 SEPTEMBER 2018 (RABU)

Cradle Fund bantu usahawan teknologi

Oleh AFIQ AL-HAFIZ MAT YUSOF

KUALA LUMPUR - Cradle Fund Sdn. Bhd. (Cradle Fund) merupakan sebuah syarikat di bawah Kementerian Kewangan yang ditubuhkan bagi membangunkan usahawan teknologi di negara ini termasuk memberi dana kepada syarikat-syarikat tersebut.

Sejak ditubuhkan pada tahun 2003, Cradle Fund telah membiayai syarikat-syarikat yang berkebolehan dalam membangunkan usahawan teknologi menerusi Program Pelaburan Cradle (CIP).

Dalam tempoh 2008 hingga 2016, Cradle Fund telah menyumbang sehingga RM3.5 bilion kepada Keluaran Dalam Negara Kasar (KDNK) selain mewujudkan



RAZIF

Cradle
— Creating. Leading. Startups. —

kan 80,600 pekerjaan sepenuh masa dalam tempoh tersebut.

Cradle Fund telah memperluaskan peranannya daripada penyedia geran kepada pelabur menerusi penubuhan Cradle Seed Ventures pada tahun 2015 sebelum mengembangkan portfolionya kepada pelaburan ekuiti pada awal tahun 2017.

Tawaran produk Cradle Fund bukan hanya terhad kepada bantuan kewangan namun turut memberi sokongan dan bimbingan dalam bidang pengkomersialan serta perkhidmatan yang diperlukan oleh golongan usahawan.

Selepas kematian Ketua Pegawai Eksekutifnya (CEO), Nazrin Hassan pada Jun lalu, Razif Abdul Aziz dilantik sebagai pemangku CEO syarikat tersebut. Razif

merupakan Ketua Pegawai Operasi di Cradle Fund sejak Januari 2016.

Dalam pada itu, Cradle Fund juga telah menerima dana lebih daripada RM30 juta setahun daripada kerajaan dan boleh memanfaatkan lebih 30 syarikat pemula niaga tempatan dalam tempoh tersebut.

Antara syarikat yang berjaya selepas menerima pembiayaan awal Cradle Fund ialah e-panggilan MyTeksi (Grab), Kaktangan.com, iMoney.my, Fotobox Sdn. Bhd. dan Babydash Sdn. Bhd.

Kelmarin, Razif dilaporkan berkata, Cradle Fund menerusi CIP akan menyumbang sehingga RM30.8 bilion kepada KDNK menjelang 2030.

Beliau juga memberitahu, menerusi satu kajian yang dilakukan, peruntukan awam berjumlah RM158.8 juta pada tahun 2008 hingga 2016 kepada Cradle Fund telah menyokong negara ini mencapai kemakmuran ekonomi tempatan dan serantau.

LAMPIRAN 6
NEW STRAITS TIMES (BUSINESS): MUKA SURAT B2
TARIKH: 5 SEPTEMBER 2018 (RABU)

IRGCE 2018

Dr M: Continue research to raise global rubber use

KUALA LUMPUR: Prime Minister Tun Dr Mahathir Mohamad has urged the rubber industry to continue product development research to raise the global use of the commodity supplied by many small farmers in Malaysia.

He said government agencies would support the private sector under the Malaysia Incorporated initiative.

"Today, doctors cannot imagine performing a surgery without donning medical gloves. And we see rubber gloves are increasingly being used in other sectors, such as food handling and cleaning services," he said after opening the International Rubber Glove Conference and Exhibition (IRGCE 2018), here, yesterday.

Dr Mahathir said Malaysia was the world's biggest exporter of examination gloves, catheters and condoms.

The IRGCE 2018 is held concurrently with the International Rubber Conference 2018, which is spearheaded by the Plastic and Rubber Institute Malaysia (PRIM).

The three-day conference fea-

tures 150 speakers from all over the world who will present papers on green technology that optimises fuel input, automated packaging and product innovation.

Also present were Primary Industries Minister Teresa Kok, Primary Industries Ministry secretary-general Datuk Zurinah Pawanteh, Malaysian Rubber Board director-general Datuk Dr Zairossani Mohd Nor, Malaysian Rubber Export Promotion Council chief executive officer Low Yoke Kiew, Malaysian Rubber Glove Manufacturers Association (Margma) president Denis Low, PRIM president Pong Kai See and IRGCE 2018 organising chairman Lim Kwee Shyan.

Low said the country was on track to achieve RM18.8 billion in rubber glove exports as the US dollar strengthened against the ringgit.

On Margma's wish-list for the 2019 Budget, Low said he was appealing to the government to raise the limit and extend the reinvestment allowance for manufacturers. **Ooi Tee Ching**

 *Today, doctors cannot imagine performing a surgery without donning medical gloves.*

TUN DR MAHATHIR MOHAMAD
Prime Minister

LAMPIRAN 7
BERITA HARIAN (SKOR): MUKA SURAT 27
TARIKH: 5 SEPTEMBER 2018 (RABU)

**MEMBIMBING
KE ARAH
KEMAHIRAN
BERFIKIR
ARAS TINGGI
(KBAT)**

**LANGKAH
HADAPI JEREBU**

**Memakai penutup
hidung dan mulut**

**Kerap minum air
kosong sekurang-
kurangnya lapan
gelas sehari**

**Membasuh muka
dan tangan
menggunakan sabun
serta air bersih
selepas melakukan
aktiviti luar**

**Pilih mod kitaran
udara dalaman pada
alat pendingin hawa
ketika memandu
kenderaan**

BAHAYA JEREBU

➔ Meningkatkan risiko masalah pernafasan, mengurangkan jarak penglihatan seseorang

**Oleh Mohd Khairul Anam
Md Khairudin**
khairul.anam@bh.com.my

► **Kuala Lumpur**

Jerebu yang melanda Malaysia susulan pembakaran terbuka yang berlaku di negara jiran, baru-baru ini, pastinya memberikan kerisauan kepada masyarakat terutama kesan terhadap kesihatan mereka.

Kebimbangan itu tidak boleh dielakkan kerana pencemaran udara berkenaan terjadi berikutan kehadiran zarah-zarah halus yang tidak dapat dilihat oleh mata kasar, tetapi terampai

di atmosfera dan pada kepekatan yang tinggi.

Zarah-zarah halus yang boleh meningkatkan risiko kepada mereka yang mempunyai masalah pernafasan itu turut berupaya menyerap dan menyerakkan cahaya matahari sehingga mengurangkan jarak penglihatan manusia.

Pengarah Bahagian Udara Jabatan Alam Sekitar (JAS), Puan Mashitah Darus, berkata selain pembakaran terbuka, antara faktor yang menyumbang kepada berlakunya jerebu ialah asap kenderaan bermotor, jerebu rentas sempadan dan pelepasan gas ke udara menerusi aktiviti perkilangan serta perindustrian. **S28**

LAMPIRAN 7 (SAMBUNGAN) BERITA HARIAN (SKOR): MUKA SURAT 28 TARIKH: 5 SEPTEMBER 2018 (RABU)



Orang ramai dinasihatkan supaya tidak melakukan pembakaran terbuka yang boleh menjejaskan lagi kualiti udara, di samping perlu kerap minum air kosong"

Puan Mashitah Darus
Pengaruh Bahagian Udara JAS

Elak pembakaran terbuka



(GAMBAR HIASAN)

Jeribu yang berpanjangan berpotensi menjejaskan aktiviti harian masyarakat di negara ini.

• Dari muka \$27

Beliau berkata, sepanjang tempoh jeribu, orang ramai dinasihatkan supaya mengurangkan aktiviti fizikal di luar rumah dan pencemaran dalaman seperti menghisap rokok, di samping kerap membasuh muka serta bahagian kulit yang terdedah dengan air bersih.

"Semua pihak dinasihatkan agar tidak melakukan pembakaran terbuka dan memastikan tanah atau premis kepunyaan mereka tidak dicerobohi pihak tertentu sehingga menyebabkan berlakunya pembakaran terbuka sama ada secara sengaja atau tidak sengaja.

"Kami juga mengharapkan bantuan orang ramai untuk memadam kebakaran kecil

dan melaporkan kes pembakaran terbuka atau kebakaran kepada Jabatan Bomba dan Penyelamat Malaysia (JBPM) di talian 999 serta JAS di talian bebas tol 1-800-88-2727," katanya kepada *BH* Skor, baru-baru ini.

Menjelaskan lebih lanjut, Puan Mashitah berkata, sebagai langkah awal, perbincangan antara negara ASEAN dilakukan melalui mesyuarat Jawatankuasa Pemandu Peringkat Menteri Sub-Serantau (MSC) mengenai Pencemaran Udara Rentas Sempadan yang dihadiri oleh wakil dari lima negara iaitu Malaysia, Singapura, Indonesia, Brunei dan Thailand.

Kerjasama serantau
Katanya, mesyuarat berkenaan bermatlamat membincangkan mengenai program,

projek dan tindakan yang diambil oleh setiap negara serta kerjasama serantau khususnya dalam membendung jeribu rentas sempadan.

"Tindakan drastik JAS adalah dengan menguatkuasakan larangan pembakaran terbuka mengikut Seksyen 29A Akta Kualiti Alam Sekeliling 1974 dan mengenakan tindakan ke atas pemilik tanah atau membiarkan tanah mereka diceroboh orang untuk melakukan pembakaran terbuka mengikut Seksyen 29B akta yang sama.

"Langkah ini termasuk larangan melakukan aktiviti yang disenaraikan mengikut Perintah Kualiti Alam Sekeliling (Aktiviti Yang Diisytiharkan) (Pembakaran Terbuka) 2003 apabila kualiti udara telah mencapai tahap tidak sihat dan berbahaya,

sekali gus bagi mengelak kualiti udara menjadi semakin buruk akibat jeribu rentas sempadan," katanya.

Puan Mashitah berkata, operasi pembenihan awan oleh Jabatan Meteorologi Malaysia dan Tentera Udara Diraja Malaysia (TUDM) boleh dilakukan jika ada kawasan yang mencatat status kualiti udara tidak sihat, tetapi tertakluk kepada keadaan jeribu serta kesesuaian awan.

Memadam kebakaran
"Sekiranya terdapat kebakaran tanah gambut, pihak JBPM akan melakukan pelbagai kaedah memadamkan bagi mengurangkan kesan jeribu setempat termasuklah *water-bombing* yang dilakukan jabatan itu dan pihak Agensi Penguatkuasaan Maritim Malaysia (APMM)," katanya.

Bacaan indeks pencemaran udara (IPU)

- 0 - 50 Baik
- 51 - 100 Sederhana
- 101 - 200 Tidak Sihat
- 201 - 300 Sangat Tidak Sihat
- 300 Berbahaya

info.

Interaktif



Jeribu mengandungi partikel halus yang berbahaya kepada sistem respiratori manusia"

Muhammad Faiq Ibrahim, 17
Pelajar Tingkatan Lima Maktab Rendah Sains MARA (MRSM) Pendang, Kedah



Kami mengamalkan amalan 3R (*reduce, reuse, recycle*) di sekolah termasuk membangunkan inovasi dan produk menggunakan sampah terbangun"

Aida Nisrina Mohd Asrul, 17
Pelajar Tingkatan Lima MRSM Pendang, Kedah

#weloveourschool pupuk pelajar cintai alam sekitar

Shah Alam: Langkah untuk memupuk kecintaan dan kesedaran pelajar terhadap kepentingan menjaga alam sekitar wajar diperluas bagi menjamin persekitaran hijau kondusif serta mampan.

Pengetua Sekolah Menengah Kebangsaan (SMK) Bukit Jelutong, di sini, Puan Badariatul Jamal Mohd Hasnan, berkata bagi merealisasikan hasrat itu, pihaknya menganjurkan program

#weloveourschool yang bertujuan menggalakkan rasa tanggungjawab pelajar terhadap prasarana dan persekitaran sekolah dengan berkesan.

Beliau berkata, program yang bermula sejak tahun 2010 itu merababitkan kerjasama erat seluruh komuniti sekolah, sekali gus mampu menyumbang kepada persekitaran pembelajaran yang bersih dan sejahtera.



Puan Badariatul Jamal

"Program ini dapat menarik minat pelajar agar lebih peka dalam menjaga alam sekitar, lebih-lebih lagi tindakan yang boleh mengurangkan kepada berlakunya pencemaran atau jeribu.

Masyarakat penyayang
"Pelajar mestilah melengkapkan diri dengan ilmu pengetahuan dan kami berharap program seumpama ini dapat membantu mereka menjadi masyarakat

penyayang serta meningkatkan kebersihan alam sekitar," katanya kepada *BH* Skor, baru-baru ini.

Puan Badariatul Jamal berkata, pelajarnya juga mengambil bahagian dalam pelbagai pertandingan kitar semula seperti dianjurkan Majlis Bandaraya Shah Alam (MBSA) saban tahun, malah turut menempa pelbagai kejayaan membanggakan.

"Sambutan yang diterima daripada pelajar amat

menggalakkan dan saya yakin pendekatan ini dapat memupuk semangat berpasukan mereka serta membolehkan perkongsian idea secara bersama.

"Saya berharap pelajar dapat memanfaatkan ilmu dimiliki ini sebaiknya dan sentiasa sedar bahawa kepentingan menjaga alam sekitar adalah tanggungjawab bersama serta tidak terhad di sekolah semata-mata," katanya.

LAMPIRAN 8
NEW STRAITS TIMES (HIGHER ED): MUKA SURAT 9
TARIKH: 5 SEPTEMBER 2018 (RABU)

BY ROZANA SANI
 rsani@nst.com.my

THE role of universities goes beyond providing education and knowledge.

Apart from learning, teaching and conducting research, they also contribute to society by sharing and encouraging the pursuit of knowledge that may improve lives.

Universiti Putra Malaysia (UPM) endeavoured to do just that through its *Jom Sains Carnival* held recently at the main campus in Serdang, Selangor.

As a biennial event that began in 2016, it was initiated to stimulate and cultivate society's interest in Science, Technology, Engineering and Mathematics (STEM), which would ensure a brighter future for the younger generation and the country's economy.

This time, the carnival was a collaboration between academics at UPM's Faculty of Science, led by senior lecturer Dr Yap Wing Fen, and members of the Faculty of Science Students' Association (comprising Physics, Chemistry, Mathematics and Biology student clubs) led by Mohd Anaz Syazreil Mohd Ghause.

It also involved external organisations, such as Petrosains, Zoo Negara, the Academy of Sciences Malaysia's Young Scientist Network (YSN-ASM) and the Malaysian Nature Society (MNS).

A total of 250 first- to final-year students — most serving as facilitators while some were in the organising committee — hosted the event for schoolchildren from 60 primary and secondary schools. The children mostly came from the Klang Valley, but there were some from Perak, Terengganu, Pahang and Negri Sembilan.

Faculty of Science dean Professor Dr Mohd Basyaruddin Abdul Rahman said the carnival was the best platform for academicians and students to work together in sharing the fun of learning science.

He said this could contribute towards producing a future generation that was innovative and science-literate as the youngsters could join activities that stimulated STEM ideas.

"Studies have found that students perceive science subjects as very difficult and boring, and lack of family support also leads to a decrease in science stream enrolment.

"Having a science carnival will nurture their interest in STEM subjects. More importantly, we want to encourage parents to explore scientific activities with their children.

"We hope that with their involvement, it will trigger interest among their children to opt for science stream."

He said through the carnival, knowledge and new enrichment ideas, as well as the latest pedagogical techniques in science, could be imparted to teachers so they would make the learning and teaching of science in schools more interactive and exciting.



Schoolchildren with Universiti Putra Malaysia academics and undergraduates at the opening ceremony of the Jom Sains Carnival recently. The event is a super fun celebration of science, with dynamic activities and interactive learning.

PROGRAMMES

Sharing the love for science

According to Yap, besides activities at the university's experimental theatre and science labs, the carnival also featured outdoor challenges that tested the schoolchildren's practical knowledge.

There was also a science video competition, science Olympiad and interactive activities, such as frog dissection and forensic experiments based on Physics.

"This programme is capable of raising the schoolchildren's awareness about science and fulfils our responsibility towards the community," he said.

Anaz, who is Faculty of Science Students' Association president for the 2017-2018 session, said this voluntary programme could develop the undergraduates' character and soft skills.

"I had the opportunity to share the knowledge I learned in UPM with the visitors. I helped the schoolchildren to better understand scientific concepts and, thereby, nurtured their interest in STEM," he said.

This year's programme, themed Science is Our Future, received an enthusiastic response with more than 6,000 schoolchildren participating. The next UPM *Jom Sains Carnival* will be organised in 2020.

Having a science carnival will nurture their interest in STEM subjects. More importantly, we want to encourage parents to explore scientific activities with their children.

MOHD BASYARUDDIN ABDUL RAHMAN
 UPM Faculty of Science dean



Mohd Basyaruddin Abdul Rahman (second from right), Yap Wing Fen (fifth from right) and Mohd Anaz Syazreil Mohd Ghause (sixth from right) guiding schoolchildren in an outdoor challenge.



Schoolchildren dissecting a frog under the supervision of a facilitator.



Four schoolchildren trying to solve the human-sized Jenga puzzle.

LAMPIRAN 9
SINAR HARIAN: MUKA SURAT 38
TARIKH: 5 SEPTEMBER 2018 (RABU)

Festival Sains tarik minat warga Kuantan

KUANTAN - Ada sesetengah pelajar tidak meminati subjek Sains.

Mereka beranggapan mata pelajaran Sains sangat sukar dan inilah sebab utama mengapa pelajar tidak menyukainya.

Bagi menarik minat pelajar terhadap mata pelajaran tersebut, Petrosains, The Discovery Centre mengambil inisiatif menganjurkan Festival Sains Petrosains iaitu sebuah festival yang menekankan kepentingan subjek Sains dan mencetuskan minat dalam subjek tersebut dalam kalangan masyarakat.

Festival Sains Petrosains 2018 bertemakan sains terbesar di negara ini diadakan di Pantai Timur bertempat di Petrosains PlaySmart Kuantan, Perpustakaan Perbadanan Awam Pahang pada 4 dan 5 Ogos lalu.

Ketua Pegawai Eksekutif Petrosains, Tengku Nasariah Tengku Syed Ibrahim berkata, pusat sains merupakan institusi yang direka untuk memainkan peranan yang penting sebagai sistem sokongan



Kakitangan Petrosains memberi cenderamata kepada pelawat Festival Sains Petrosains 2018 di PlaySmart, Kuantan.

pembelajaran yang kukuh untuk pendidikan formal dan berterusan.

"Melalui pameran, program, pertandingan atau festival, Pusat Sains ingin menjadikan sains menarik dan mudah diakses oleh orang ramai.

"Festival Sains Petrosains adalah satu lagi langkah yang diambil oleh Petrosains ke

arah menyediakan pembelajaran sains yang bermakna kepada masyarakat," katanya.

Sehubungan itu, Tengku Nasariah berharap festival dianjurkan buat pertama kali di Kuantan itu dapat memberi manfaat kepada masyarakat dari segi pembelajaran dan persembahan yang telah disediakan.

Sepanjang festival berlangsung,

Kanak-kanak ini mengayuh 'Bike Blender' untuk menghasilkan jus menggunakan mesin pengisar yang beroperasi dengan menggunakan tenaga melalui kayuhan.



pengunjung berpeluang mengikuti bengkel pendidikan seperti Taman Terrarium, Oven Solar, Robot Hidraulik, sesi pembelajaran interaktif seperti pertunjukan sains Cecair Nitrogen dan Pembakaran, aktiviti hiburan seperti persembahan pentas, sesi kecergasan Zumba dan 'food trucks' yang disediakan.

LAMPIRAN 10
HARIAN METRO (SETEMPAT): MUKA SURAT 10
TARIKH: 5 SEPTEMBER 2018 (RABU)

Zaid Salim dan Zarina Abdullah
 cnews@nstp.com.my

Kuala Terengganu

Ribut yang melanda beberapa daerah di Terengganu menyebabkan hampir 600 rumah mengalami kerosakan teruk. Ribut berserta hujan lebat kira-kira jam 4.30 petang kelmarin turut menumbangkan pokok selain menyebabkan kerosakan beberapa kenderaan.

Pengarah Angkatan Pertahanan Awam Terengganu Che Adam Abd Rahman berkata, Kuala Nerus paling teruk terjejas dengan lebih 500 rumah, termasuk bumbung beberapa buah sekolah mengalami kerosakan.

Menurutnya, di Kuala Nerus, APM menerima 30 laporan kejadian pokok tumbang akibat ribut dan angin kencang.

Difahamkan ribut dan angin kencang turut melanda daerah Kemaman, Marang, Dungun, Hulu Terengganu, Setiu dan Besut.

Che Adam berkata pegawai APM berkegas membuat tinjauan sebelum bertindak melakukan operasi pembersihan kawasan bagi memudahkan pergerakan awam yang terganggu akibat pokok tumbang.



SEBATANG pokok tumbang menghempap sebuah gerai dalam kejadian ribut di Kampung Jerangau Sungai.

600 RUMAH DIBADAI RIBUT

■ **APM terima 30 laporan pokok tumbang, bumbung sekolah rosak**

Antara lokasi terbabit di daerah Kuala Terengganu adalah di Kampung Pulau Musang, Kampung Paloh, Sungai Kiat, Kampung Baru Tetambah, Kampung Merbau Patah, Kampung Pulau Rusa, Kampung Banggol Tuan

Muda, Kampung Pasir Panjang, Bukit Bayas, Kampung Kubang Jela, Kampung Kebor Air, Bukit Besar dan Jalan Pusara.

Che Adam berkata kerja pembersihan kawasan turut dibantu Flying Skwad Majlis

Bandaraya Kuala Terengganu, penduduk kampung dan petugas TNB.

"Pihak kami menamatkan operasi pembersihan pada jam 2 pagi dan pagi ini (semalam) kerja pembersihan disambung semula pada jam 9 pagi bermula di Kampung Sungai Kiat," katanya.

Pembelajaran tidak terjejas

Kuala Terengganu Sebanyak 48 sekolah di negeri ini rosak akibat dilanda ribut kelmarin namun sekolah terbabit beroperasi seperti biasa, semalam.

Pengarah Jabatan Pendidikan Negeri Safruddin Ali Hussin berkata, walaupun ribut itu berlaku pada hari persekolahan namun beliau bersyukur kerana tiada pelajar yang cedera.

"Kebanyakan sekolah mengalami kerosakan pada bahagian bumbung atau atap bangunan. Bagaimanapun, semua sekolah beroperasi seperti biasa pada hari ini," katanya selepas melawat beberapa sekolah yang terbabit, semalam.

Katanya, arahan pembaikan segera kerosakan kecil sudah dihantar kepada Pejabat Pendidikan Daerah (PPD) yang berkaitan untuk menggunakan peruntukan sedia ada.

"Saya dimaklumkan PPD sedang mendapatkan anggaran kos sebenar kerosakan dengan menggunakan kepakaran Jabatan Kerja Raya," katanya.

Antara sekolah yang rosak di Kuala Terengganu adalah Sekolah Kebangsaan (SK) Paloh, Sekolah Jenis Kebangsaan Cina (SJK) Chung Hwa Wei Sin, SK Paya Bunga, SK Telok Pasu, SK Pusat Bukit Besar, SK Losong, SK Kepong, SK Manir, SK Seri Budiman 2, SK Bukit Losong, SK Bukit Bayas, SK Pulau Rusa, SK Beladatu Kolam, SK Atas Tol dan SK Kedai Buloh.

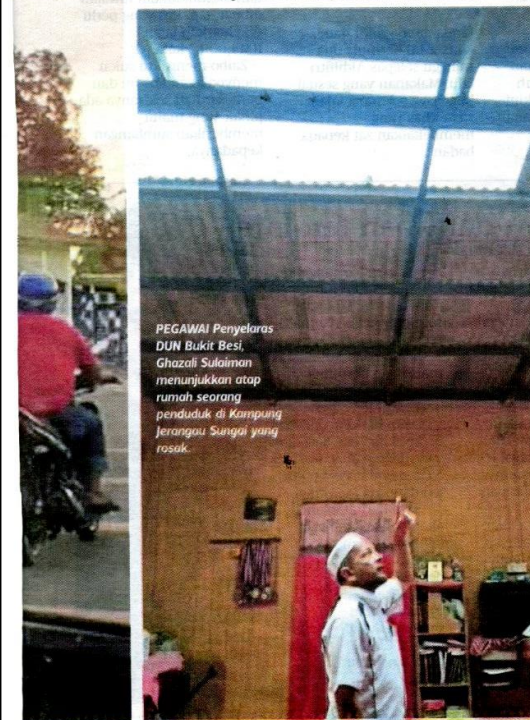


SEBAHAGIAN daripada premis di Jalan Kuala Terengganu-Manir yang runtuh dibadai ribut.

LAMPIRAN 10 (SAMBUNGAN) HARIAN METRO (SETEMPAT): MUKA SURAT 11 TARIKH: 5 SEPTEMBER 2018 (RABU)



SEBUAH reban ayam musnah selepas dibadai angin kencang.



PEGAWAI Penyelaras
DUN Bukit Besi,
Ghazali Sulaiman
menunjukkan atap
rumah seorang
penduduk di Kampung
Jerangau Sungai yang
rosak.



Cemas rumah bergoyang

Gua Musang: "Saya meluang azan sekuat hati apabila rumah bergoyang dan bergegar sebelum bumbung tercabut," kata Mat Jusoh Yaacob, seorang mangsa ribut di Kampung Star Baru, di sini.

Enam rumah termasuk kediaman Mat Jusoh, 68, tercabut bumbung dan berpuh lagi mengalami kerosakan dalam kejadian ribut dan hujan lebat pada jam 6 petang kelmarin.

Mat Jusoh berkata, kejadian itu berlaku dalam tempoh setengah jam saja menyebabkan dia bersama isteri, Bidah Umat, 63, terpaksa berlari mencari perlindungan.

"Ketika itu saya dan isteri berehat di ruang tamu tiba-tiba terkejut apabila rumah bergoyang serta bergegar.

"Selepas itu, saya lihat bumbung rumah tercabut menyebabkan air hujan membasahi keseluruhan di dalam rumah," katanya ketika ditemui di sini, semalam.

Mat Jusoh berkata, dia hanya tinggal bersama isteri saja di rumah itu kerana enam anak sudah berumah tangga tinggal di luar Kelantan.

"Tak tahulah bila saya dapat baiki semula bumbung yang tercabut itu kerana ia memerlukan perbelanjaan yang banyak," katanya.

Ayub Said, 51, pula berkata, kejadian ribut luar biasa itu berlaku hanya dalam tempoh setengah jam saja sebelum hujan lebat berlarutan hingga jam 9 malam.

Beliau berkata, ini adalah



GURU Sekolah
Kebangsaan (SK)
Losong menunjukkan
bahagian bumbung
sekolah yang rosak
akibat kejadian ribut
petang semalam.

Tak tahulah bila saya dapat baiki semula bumbung yang tercabut itu kerana ia memerlukan perbelanjaan yang banyak"

Mat Jusoh

kejadian pertama seperti itu sejak lebih 25 tahun mereka tinggal di situ.

Katanya, ketika kejadian itu, ada bumbung yang berterbangan dibawa angin hingga menghempap rumah jiran berdekatan.

"Bagaimanapun, kami bersyukur kerana semuanya terselamat walaupun barang keperluan di dalam rumah banyak yang rosak.

"Kini mangsa ribut terutama rumah yang tercabut bumbung terpaksa menumpang tinggal di rumah saudara," katanya.

LAMPIRAN 11
UTUSAN MALAYSIA (LUAR NEGARA): MUKA SURAT 12
TARIKH: 5 SEPTEMBER 2018 (RABU)

RangerBot buru perosak terumbu

SYDNEY 4 Sept. - Sebuah robot kapal selam dengan keupayaan memburu dan membunuh tapak sulaiman mahkota berduri atau dikenali sebagai 'Crown of Thorns' yang menjadi pemusnah kawasan terumbu terkenal, Great Barrier Reef diperkenalkan oleh sekumpulan penyelidik baru-baru ini.

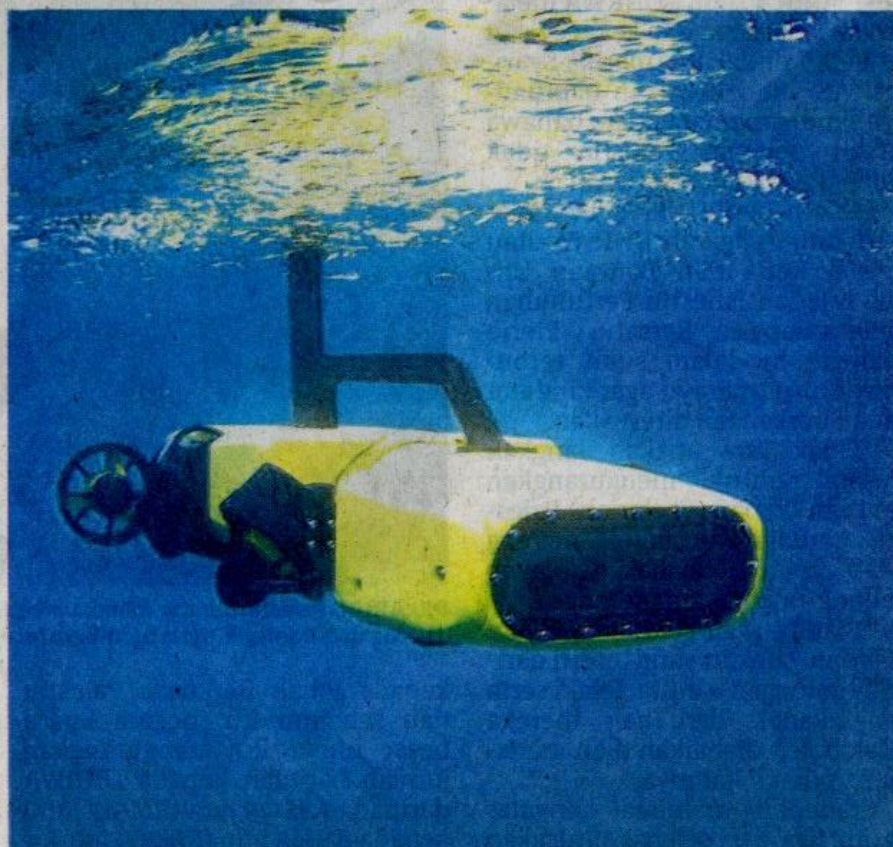
Lapor portal *Jakarta Post*, para saintis dari Universiti Teknologi Queensland (QUT) memberitahu, robot berkenaan, RangerBot dibangunkan dengan geran daripada firma Google.

Robot terbabit akan berfungsi sebagai pelindung terumbu karang untuk Great Barrier Reef.

Selain itu, RangerBot mempunyai jangka hayat bateri selama lapan jam dan keupayaan penglihatan berasaskan komputer yang membolehkannya memantau serta menjalankan pemetaan kawasan tersebut pada skala lebih besar berbanding sebelum ini.

"RangerBot adalah sistem robotik dasar laut pertama dunia yang direka secara spesifik untuk persekitaran terumbu karang, menggunakan penglihatan berasaskan robot untuk pelayaran waktu nyata, mengelak halangan dan misi sains kompleks.

"Dron lautan pelbagai fungsi ini mampu memantau pelbagai isu berkaitan terumbu karang seperti pelunturan batu karang,



RANGERBOT diuji di kawasan terumbu Great Barrier Reef, Queensland, Australia, baru-baru ini. - AGENSI

kualiti air, spesies perosak dan pencemaran," kata Matthew Dunbabin, seorang profesor di QUT yang mendedahkan mengenai keupayaan kapal selam berkenaan.

Sementara itu, perisian pada robot tersebut juga membantu mengesan tapak sulaiman yang memakan batu karang dan 'me-

lakukan suntikan maut' kepada pemangsa tanpa menjejaskan habitat terumbu karang lain.

Pakar telah memberi amaran bahawa kawasan Great Barrier Reef seluas 2,300 kilometer itu boleh mengalami kerosakan berikutan kesan pelunturan, pertanian dan impak tapak sulaiman.

LAMPIRAN 12
BERITA HARIAN (DUNIA): MUKA SURAT 68
TARIKH: 5 SEPTEMBER 2018 (RABU)

Taufan Jebi gegar Jepun



➔ 6 maut, lebih
sejuta penduduk
diarah pindah
dilanda ribut
tropika terburuk
sejak 25 tahun

Tokyo

Jepun mengeluarkan amaran untuk berpindah kepada lebih sejuta penduduk serta membatalkan ratusan jadual penerbangan ketika Taufan Jebi membadi merentasi kawasan barat negara berkenaan, semalam.

Dalam situasi itu, pihak berkuasa melaporkan sekurang-kurangnya enam orang terkorban dengan lebih 164 lagi cedera dan angka itu dijangka mungkin meningkat.

Dalam ribut tropika terburuk sejak 1993, seorang lelaki berusia 71 tahun ditemui maut di bawah runtuhan rumah gudang akibat angin kencang manakala seorang

lagi lelaki dalam usia 70-an terjatuh dari bumbung rumah sebelum meninggal.

Menurut laporan televisyen kebangsaan, NHK, ombak di setengah kawasan adalah tertinggi sejak taufan pada 1961 dengan lapangan terbang antarabangsa Kansai dikatakan mengalami banjir dan terpaksa ditutup. Ini menyebabkan ratusan pelancong terkandas.

Taufan Jebi dengan kelajuan angin mencecah 216 kilometer sejam dilaporkan mampu menghancurkan sebuah kapal tangki yang berlabuh di Teluk Osaka sebelum menghentam sebuah jambatan selain menyebabkan sebahagian Lapangan Terbang Antarabangsa Kansai dinaiki air.

➔ Lihat Ms.71

[FOTO AFP]



Kenderaan yang rosak selepas dilanda Taufan Jebi di Osaka, bahagian barat Jepun semalam.

Pekerja kerajaan tempatan mengalihkan pokok yang tumbang di laluan pejalan kaki di Nogoya, semalam.



LAMPIRAN 13

THE STAR (WORLD): MUKA SURAT 20

TARIKH: 5 SEPTEMBER 2018 (RABU)

Vietnam floods leave 14 dead

HANOI: Floods and storms have left 14 people dead in northern and central Vietnam, state media reported. A tropical convergence zone that arrived in the region on Aug 29 has caused heavy downpours and flooding after up to 200mm of rain fell, the Vnexpress news site reported.

Nine were reported dead and three missing in Thanh Hoa province, the worst hit, while Hoa Binh, Lai Chau, Lang Son, Son La, Yen Bai each reported one dead.

Prime Minister Nguyen Xuan Phuc on Friday urged authorities to take action to prevent the loss of further lives. — dpa

LAMPIRAN 14

MALAY MAIL (WORLD): MUKA SURAT 13

TARIKH: 5 SEPTEMBER 2018 (RABU)

US Gulf Coast bracing for Hurricane Gordon

ATLANTA — Tropical Storm Gordon whipped the southern tip of Florida with high winds and rain on Monday, and was expected to make landfall as a hurricane along the central US Gulf Coast yesterday night, the National Hurricane Centre (NHC) said.

The storm was forecast to come ashore late yesterday near the border between Louisiana and Mississippi, and drop as much as 20cm of rain in some areas of the US South still reeling from hurricanes a year ago.

Louisiana Governor John Bel Edwards declared a state of emergency, saying 200 Louisiana National Guardsmen were being deployed, along with 63 high-water trucks, 39 boats, and four helicopters.

The Mississippi Emergency Management Agency warned of storm surges of between one and 1.5m and told South Mississippi residents to be prepared to evacuate.

Gordon was generating winds of 80kph on Monday as it steamed west-northwest at 27kph, the National Hurricane Centre said.

Gordon was located about 530km east-southeast of the mouth of the Mississippi River with maximum sustained winds of 95kph, the Miami-based weather forecaster said in an advisory late on Monday.

By Monday afternoon the storm had passed over Florida's southern tip.

There were no reports of any injuries or deaths or any damages to buildings, said Alberto Moscoso, a spokesman for the Florida Division of Emergency Management.

New Orleans Mayor LaToya Cantrell has declared a state of emergency for her city, closing all non-essential government offices yesterday.

Last year, powerful hurricanes walloped Texas, Florida and Puerto Rico, causing thousands of deaths, hundreds of billions of dollars worth of damage, massive power outages and devastation to hundreds of thousands of structures.

At the mouth of the Mississippi River, around the area of New Orleans, the storm could generate a surge of up to 1.2m and smaller surges could hit coastland along other parts of the Gulf Coast, the Miami-based hurricane centre said.

US oil producer Anadarko Petroleum Corp on Monday evacuated workers and shut production at two offshore oil platforms, and other companies with production and refining operations along the Gulf Coast said they were securing facilities.

The US Coast Guard also warned the ports of New Orleans as well as Gulfport and Pascagoula, Mississippi, may have to close within 48 hours when gale force winds from Gordon are expected to arrive. — Reuters

Pedestrians walk through rain from Tropical Storm Gordon in Miami Beach, Florida. — Picture by AFP

