

**KERATAN AKHBAR-AKHBAR TEMPATAN**  
**TARIKH: 13 NOVEMBER 2014 (KHAMIS)**

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**KERATAN AKHBAR**  
**BERITA HARIAN (NASIONAL) : MUKA SURAT 12**  
**TARIKH : 13 NOVEMBER 2014 (KHAMIS)**



**Sultan Nazrin  
sampaikan  
anugerah  
keselamatan siber**

Sultan Perak, Sultan Nazrin Muizzuddin Shah berkenan mencemar duli menyampaikan Anugerah Keselamatan Siber Malaysia (CSM) 2014 kepada 13 penerima anugerah melalui tujuh kategori sebagai **menghargai dan mengiktiraf sumbangan mereka melalui inovasi, komitmen, kepimpinan industri dan pendidikan awam dalam aspek keselamatan siber** di Ipoh, semalam. Kumpulan Wang Simpanan Pekerja (KWSP) dan BAE System Applied

Intelligence menjadi pemenang tunggal bagi kategori masing-masing, iaitu Anugerah Projek Keselamatan Siber Terbaik dan Syarikat Keselamatan Siber Terbaik. Yang hadir sama pada majlis itu, Menteri Besar, Datuk Seri Dr Zambry Abdul Kadir; Timbalan Menteri Sains, Teknologi dan Inovasi, Datuk Dr Abu Bakar Mohamad Diah dan Pengerusi Lembaga Pengarah CSM, Tan Sri Mohd Azumi Mohamed.

[FOTO L. MANIMARAN/BH]



KERATAN AKHBAR  
HARIAN METRO (BISNES) : MUKA SURAT 43  
TARIKH: 13 NOVEMBER 2014 (KHAMIS)



DR Zambry (dua dari kiri) merasmikan Cyber Security Malaysia (CSM-ACE).

## Jenayah ekonomi kaut RM15.7j

**Ipoh:** Jenayah ekonomi membabitkan penyamaran identiti dan penipuan kad kredit menyebabkan Malaysia kerugian RM15.7 juta dalam tempoh lima bulan pertama tahun ini.

Menteri Sains, Teknologi dan Inovasi, Datuk Dr Ewon Ebin, berkata, 587 kes membabitkan kes penyamaran identiti dilaporkan kepada pihak berkuasa dengan anggaran kerugian RM14.9 juta.

"Manakala kegiatan phishing dan penipuan kad kredit menyebabkan kerugian

RM845,000 untuk tempoh sama selain 10,636 kes insiden keselamatan siber dilaporkan pada tahun lalu saja," katanya.

Beliau memaklumkan Internet sepatutnya menawarkan peluang baru dalam memperluaskan ekonomi dan peluang perniagaan, namun salah guna data peribadi dikhuatiri boleh melumpuhkan ekonomi, tahap kompetitif dan inovasi.

"Menangani ruang siber yang komplikated kini menjadi keutamaan kepada kerajaan di

bawah MOSTI," katanya ketika pelancaran Anugerah, Persidangan dan Pameran Cyber Security Malaysia (CSM-ACE) di sini, semalam.

Perasmian disempurnakan oleh Menteri Besar Perak, Datuk Seri Dr Zambry Abd Kadir.

CSM-ACE adalah persidangan tahunan industri itu yang menjadi program inovatif terbesar berkaitan keselamatan maklumat yang diusahakan agensi MOSTI, CyberSecurity Malaysia (Cybersecurity).

## Alarming rise in cyber crime

**IPOH:** Police received 587 cases of online crime with an estimated RM14.9 million in losses in the first five months of this year.

Science, Technology and Innovation Deputy Minister (MOSTI) Datuk Dr Abu Bakar Mohamad Diah said phishing and credit card fraud caused losses amounting to RM845,000 during that period.

"Cyber attacks have become more frequent, more widespread and more sophisticated.

"The economic impact of cyber crime globally is huge and today, we are facing a wide range of cyberspace threats from criminals made up of individual hackers and organised groups," he said in his speech at the Cyber Security Malaysia Awards, Conference & Exhibition 2014 (CSM-ACE 2014).

Abu Bakar said 10,636 cyber security incidents were reported in Malaysia last year.

"While the internet offers new opportunities to expand economic and business possibilities, it is also vulnerable to cyber crimes and growing misuse of personal information related to businesses.

"The increasing number of such incidents would, in the long run, harm the country's economic growth, competitiveness and innovation," he said.

**KERATAN AKHBAR**  
**SINAR HARIAN (NASIONAL) : MUKA SURAT 11**  
**TARIKH: 13 NOVEMBER 2014 (KHAMIS)**

## 587 kes penyamaran dalam internet

**IPOH** - Polis telah menerima 587 kes penyamaran dalam talian membabitkan anggaran kerugian mencecah RM14.9 juta dalam tempoh lima bulan pertama tahun ini, kata Timbalan Menteri Sains, Teknologi dan Inovasi (Mosti), Datuk Dr Abu Bakar Mohamad Diah.

Beliau berkata, dalam tempoh tersebut kegiatan memancing maklumat pengguna internet atau *phising* dan penipuan kad kredit mencatatkan kerugian sebanyak RM845,000.

"Jenayah siber terhadap kesan ekonomi global adalah begitu besar dan hari ini kita berdepan dengan pelbagai ancaman daripada penjenayah terdiri daripada penggadam individu dan sindiket jenayah terancang di ruang siber," katanya.

Beliau berkata demikian dalam ucapannya pada majlis Anugerah, Persidangan dan Pameran Keselamatan Siber Malaysia 2014 (CSM-ACE 2014) yang dirasmikan oleh Menteri Besar Perak, Datuk Seri Dr Zambry Abdul Kadir, semalam.

Abu Bakar berkata pada tahun lalu, Malaysia mencatatkan sebanyak 10,636 kes aduan jenayah internet.

"Walaupun internet menawarkan peluang baharu bagi mengembangkan perniagaan, kemungkinan ia juga terdedah kepada jenayah siber dan peningkatan penyalahgunaan maklumat peribadi berkaitan perniagaan," katanya.

Menurutnya, peningkatan jumlah kejadian seperti itu akan merosakkan pertumbuhan ekonomi, daya saing dan inovasi negara dalam jangka masa panjang. - Bernama





## 587 Kes Penyamaran Dalam Internet Dalam Tempoh Lima Bulan - MOSTI

IPOH, 12 Nov (Bernama) -- Polis telah menerima 587 kes penyamaran dalam talian membabitkan anggaran kerugian mencecah RM14.9 juta dalam tempoh lima bulan pertama tahun ini, kata **Timbalan Menteri Sains, Teknologi dan Inovasi (MOSTI), Datuk Dr Abu Bakar Mohamad Diah**.

Beliau berkata dalam tempoh tersebut kegiatan memancing maklumat pengguna internet atau phising dan penipuan kad kredit mencatatkan kerugian sebanyak RM845,000.

Katanya serangan siber kini menjadi lebih kerap, meluas dan lebih canggih. "Jenayah siber terhadap kesan ekonomi global adalah begitu besar dan hari ini kita berdepan dengan pelbagai ancaman daripada penjenayah terdiri daripada penggodam individu dan sindiket jenayah terancang di ruang siber," katanya.

Beliau berkata demikian dalam ucapannya pada majlis **Anugerah, Persidangan dan Pameran Keselamatan Siber Malaysia 2014 (CSM-ACE 2014)** yang dirasmikan oleh Menteri Besar Perak, Datuk Seri Dr Zambry Abdul Kadir di sini pada Rabu.

Abu Bakar berkata tahun lepas, Malaysia telah mencatatkan sebanyak 10,636 kes aduan jenayah internet. Walaupun internet menawarkan peluang baharu bagi mengembangkan perniagaan, kemungkinan ia juga terdedah kepada jenayah siber dan peningkatan penyalahgunaan maklumat peribadi berkaitan perniagaan, katanya.

Menurutnya peningkatan jumlah kejadian seperti itu akan merosakkan pertumbuhan ekonomi, daya saing dan inovasi negara dalam jangka masa panjang.

Sementara itu, pada sidang media selepas majlis perasmian itu, Abu Bakar berkata MOSTI dengan kerjasama SME Corporation Malaysia akan mewujudkan "Bazar Inovasi" bagi merancakkan pengkomersilan produk inovasi di negara ini.

"Bazar itu akan diadakan di Bangunan SME Corp di Kuala Lumpur dan kita sedang bincang untuk buat seminggu sekali pada hujung minggu," katanya.

Katanya pengkomersilan produk inovasi adalah pada kadar lapan hingga 10 peratus ketika ini. "Untuk itu tahun berikut hingga ke tahun 2020, MOSTI harap kadar itu akan naik 10 hingga 15 peratus setara dengan keupayaan pengkomersilan di negara-negara maju," katanya.



## 587 Online Impersonation Cases Reported In Five Months

IPOH, Nov 12 (Bernama) -- Malaysian police received 587 reported cases of online impersonation with an estimated RM14.9 million in losses in the first five months of this year.

**Science, Technology and Innovation Deputy Minister (MOSTI) Datuk Dr Abu Bakar Mohamad Diah** said phishing and credit card fraud had caused losses amounting to RM845,000 during that period.

"Cyber attacks have become more frequent, more widespread and more sophisticated.

"The economic impact of cyber crime globally is so huge and today, we are facing a wide range of cyberspace threats from criminals made up of individual hackers and organised groups," he said in his speech at the **Cyber Security Malaysia Awards, Conference & Exhibition 2014 (CSM-ACE 2014)**, here, today.

The event was officiated by Perak Menteri Besar Datuk Seri Dr Zambry Abdul Kadir.

Abu Bakar said 10,636 cyber security incidents were reported in Malaysia last year.

"While the Internet offers new opportunities to expand economic and business possibilities, it is also vulnerable to cyber crime and growing misuse of personal information related to businesses.

"The increasing number of such incidents would, in the long run, harm the country's economic growth, competitiveness and innovation," he said.

At a news conference after the event opening, Abu Bakar said MOSTI with the cooperation of SME Corporation Malaysia would establish the Innovation Bazaar to spur the commercialisation of innovative Malaysian products.

"The bazaar will be set up at the SME Corp building and we are discussing to hold it once a week on the weekend," he said, adding that commercialisation of innovative products currently was at eight to 10 per cent.

"Hence, for next year until 2020, we hope the rate will increase to between 10 and 15 per cent, which will be at par with that in developed countries."

-- BERNAMA





## **Fortinet Launches New Regional Solution Centre In Malaysia**

KUALA LUMPUR, Nov 12 (Bernama) -- Fortinet, a world leader in high performance network security, today launched its new regional solution centre in Kuala Lumpur.

The company has also launched its security consulting services for enterprises in the region to help meet the demand for such services.

In a statement here today, Fortinet said the service would be backed by a team of highly skilled networking and security professionals, manning state-of-the-art testing and simulation facilities at the solution centre.

The security consulting services was the first service offered by a network security vendor in the region, it said.

Among the services offered are security assessment, vulnerability assessment, wireless security status verification, and firewall policy and configuration assessment.

Fortinet Vice President of Southeast Asia and Hong Kong, Datuk George Chang said, "The new services are an extension of Fortinet's efforts in providing advanced threat response platforms to enterprises over the years.

"That's exactly what we are putting in place with our solution centre and our threat intelligence partnerships, which are built on top of our global research and development (R&D) capabilities.

"Through this portfolio of new services, which will be expanded over time, we want to raise the bar in the network security industry and properly help enterprises reap the business benefits of good security practices."

**CyberSecurity Malaysia**, the national cyber security specialist agency under the **Ministry of Science, Technology and Innovation**, is an early Fortinet partner for this initiative.

Fortinet said it planned to forge more alliances with the various local cyber security authorities in the region in the coming months.

-- BERNAMA





## TPM Menang Anugerah Organisasi Keselamatan Siber 2014

IPOH, 12 Nov (Bernama) -- **Technology Park Malaysia Corporation Sdn Bhd (TPM)** memenangi Anugerah Organisasi Keselamatan Siber 2014 dalam pertandingan anjuran Cyber Security Malaysia (CSM).

Sultan Perak Sultan Nazrin Shah berkenan menyampaikan anugerah itu kepada Presiden TPM Datuk Ir Mohd Azman Shahidin, di sini pada Rabu malam.

TPM memenangi anugerah itu atas usahanya mempromosi dan mengukuhkan inisiatif keselamatan siber dalam bidang Teknologi Maklumat dan Komunikasi (ICT).

TPM memainkan peranan penting dalam mentransformasikan ekonomi negara melalui pemerkasaan dan menggalakkan usahawan akar umbi serta pembangunan usahawan teknologi, terutamanya dalam memupuk syarikat permulaan baharu melalui Pusat Inkubasi Inovasi (IIC) miliknya.

Sebagai taman teknologi yang terkemuka dan utama di negara ini, TPM memberi tumpuan kepada kelompok pembangunan utama iaitu ICT, Bioteknologi dan Sains Hayat, Kejuruteraan Lanjutan dan Teknologi Hijau.

Pertandingan itu diadakan sempena Persidangan dan Pameran Keselamatan Siber Malaysia (CSM-ACE) yang berlangsung selama lima hari bermula semalam di Hotel Casuarina @ Meru di sini.

Sementara itu, **Timbalan Menteri Sains, Teknologi dan Inovasi (MOSTI) Datuk Dr Abu Bakar Mohamad Diah** berkata Anugerah Keselamatan Siber Malaysia diberi sebagai mengiktiraf kreativiti, industri dinamik dan kecemerlangan korporat oleh individu dan organisasi.

"Mereka telah berkhidmat dalam industri keselamatan maklumat dengan cemerlang. Setiap orang daripada mereka telah membuat sumbangan besar dan saya berharap pendekatan inovatif mereka akan dicontohi oleh rakyat Malaysia yang lain," katanya dalam ucapan.

Beliau berkata sejak dua dekad yang lepas, komitmen Malaysia dalam Penyelidikan dan Pembangunan (R&D) telah meningkat iaitu sebanyak RM3.6 bilion diperuntukkan kepada MOSTI dalam bentuk geran R, D dan C sejak 2006 hingga September 2014.

"Sebanyak RM1.5 bilion diperuntukkan untuk tahun depan bagi membolehkan syarikat tempatan dan institusi penyelidikan menjalankan penyelidikan dan pembangunan serta pengkomersialan dalam pelbagai bidang yang mereka wakili," katanya.

Beliau berkata dengan memperhebatkan usaha dalam aktiviti R&D pihaknya berharap untuk meningkatkan kadar pengkomersialan produk berasaskan R&D.

Abu Bakar berkata menerusi Tahun Pengkomersialan MOSTI 2014 (MCY 2014) yang dilancarkan pada Januari lepas, pihaknya menjangkakan kadar pengkomersialan meningkat kepada 10 peratus sehingga 15 peratus pada 2014 daripada lapan peratus.

"Kami bersedia untuk komersialkan 360 produk R&D dalam tempoh lima tahun akan datang. Strateginya adalah untuk komersialkan sekurang-kurangnya 60 produk R&D syarikat tempatan pada 2014 sahaja," katanya. --BERNAMA



# Star Metro

Thursday 13 November 2014

[thestar.com.my/news/community/](http://thestar.com.my/news/community/)



## Rising to the challenge

A group of volunteers has been diligently helping special children to ride horses to improve development of their motor and social skills.

14 & 15



Raising standards: A thermal vacuum chamber that is able to produce high temperatures is one of the newly installed equipment at the Malaysia Space Centre. — Photo by YAP CHEE HONG

## Making space for others

The Malaysia Space Centre in Banting, Selangor has its sights set on assisting various industries by allowing the use of its sophisticated equipment. 2 & 3



# State-of-the-art facility

New equipment at space centre has potential to be used in other industries

By CHOONG MEK ZHIN  
mekzhin@thestar.com.my



**T**HE Malaysia Space Centre (MSC) is setting its sights on something a little closer to the ground by opening its doors and technology for use in other industries.

Located in Banting, the centre — along with the National Planetarium and National Observatory Langkawi — is managed by the National Space Agency under the umbrella of the Science, Technology and Innovation Ministry.

Its director-general Dr Noordin Ahmad believes that its recently installed equipment has the potential to be used in many other applications.

"This facility is equipped to build and test satellites.

"It is also able to calibrate equipment attached to satellites," he said, adding that this was a one-of-a-kind facility in South-East Asia and its equipment installed this year.

Dr Noordin said the space centre was tasked with testing satellites and related equipment to ensure they could withstand all the conditions that exist from the point of lift-off to their time in space.

"For instance, there is a thermal vacuum chamber that is capable of producing temperatures as low as -120°C to 150°C and can be sealed for long periods.

"Next to it is an electromagnetic-proof room with foam cones lining its walls and ceiling, blocking off outside signals from interfering.

"There are also two machines

called 'shakers' that can be attached to an item such as a satellite for vibration tests," he disclosed.

Another room is built to test structural stability against low to high frequency sound up to 155dB (about the same as a jet taking-off heard at extremely close range and will likely result in eardrum rupture if the ears are not protected).

"I believe there are many other industries that could use such equipment, including the communication industry and vehicle manufacturing sector.

"We have also opened up the facilities to universities," said Dr Noordin, adding that he is open to application ideas for the equipments.

As for its core activity, the centre is building a new satellite called the RazakSAT2 that will be equipped with a high-resolution camera to take images of the country, a service that can be extended to other countries.

"We are still at the learning and capacity-building stage.

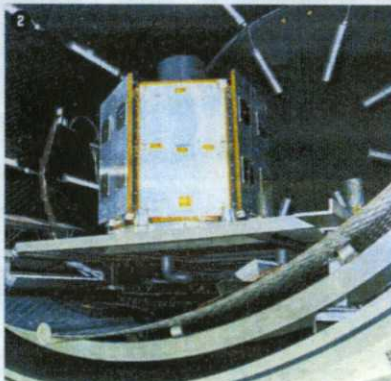
"The RazakSAT1 was built with the Koreans, who at that time was also learning to build them.

"The new satellite will be tested here but there are components that will have to be imported because we do not manufacture them here.

"We ventured into satellite development in 1996 and now hope to be able to join the elite few in the world capable of building our own," Dr Noordin said, pointing out that much of space technology and innovations had been focused on downstream applications.

The MSC's earliest structure is the mission control centre that is able to

1



1 Dr Noordin says that he is open to ideas on how the equipment installed at the Malaysia Space Centre can be used in other industries apart from satellite building and testing.

2 The structural model of RazakSat 1 inside the thermal vacuum chamber that can be sealed and produce temperatures between -120°C to 150°C.

3 The Malaysia Space Centre which is located in Banting currently only uses about 10% of its total land area.

— Photos by  
YAP CHEE HONG



➤ SEE NEXT PAGE



KERATAN AKHBAR  
THE STAR (CENTRAL METRO) : MUKA SURAT 15  
TARIKH : 13 NOVEMBER 2014 (KHAMIS)



## Centre equipped to build and test satellites

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control and maintain satellite operation as well as communicate with satellites in the lower and middle orbits.

"We have experience helping with control of European satellites, which mostly involves ensuring they are in working order.

"Our centre was also used to monitor in this region the launch of the Indian satellite Mangalyaan, which was deployed to study Mars," he said.

He also revealed that the MSC facilities only occupied 10% of the 161.9ha land and future plans included constructing a space science lab to facilitate micro gravity tests, or zero gravity in layman terms. The centre began construction in 2004 and the first building was ready a year later.

"For now, we have ongoing astronomy studies as well as education and awareness programmes.

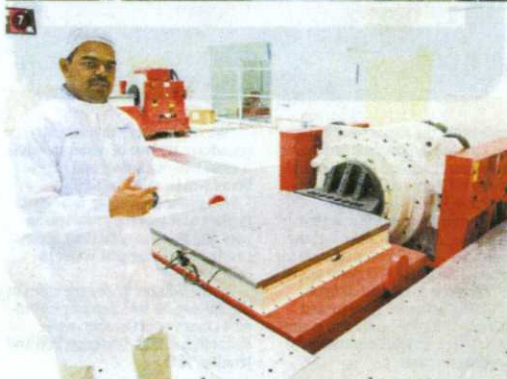
"Annually we nominate experiments to be carried out in a parabolic flight as well as in space under the Try Zero-G contest that is organised by the Japanese on the International Space Station.

"Last year, two out of three experiments selected came from Malaysia, one of it was by an expatriate staying here," he added.

Space research has been increasingly blurring the line between fantasy and reality in today's world, Dr Noordin noted.

"Here, we are also building applications that utilise GPS. One of it is for an emergency medical response app while another is on monitoring public transportation.

"While it is not anything new in other parts of the world, in Malaysia



1 A dome radar and parabolic dish used at the mission control centre.

2 A blacked-out room in a separate building in the facility used for further testing has an even stricter 'dresscode'.

3 Visitors need to enter the blow chamber to remove dust and dirt before and after entering the facility.

4 Two machines for vibrating tests are being demonstrated and explained by Malaysia Space Centre staff Karthigesu Thanarasi.



## Kejadian terakhir sebelum peralihan monsun

**Alor Setar:** Puting beliung yang berlaku di Kampung Sungai Nonang, Jalan Kuala Kedah-Yan, di sini, petang semalam lebih kecil berbanding tiga kejadian dalam tempoh dua bulan ini.

Penolong Pengarah Bahagian Siasatan Jabatan Bomba dan Penyelamat Malaysia (JBPM) Kedah Penguasa Kanan Bomba I Mohamad Yunus Abu berkata, pihaknya menerima panggilan berhubung kejadian itu pada jam 3 petang dan jentera pertama tiba di lokasi jam 3.26 petang.

Beliau berkata, tujuh anggota dari Balai Bomba dan Penyelamat (BBP) Jalan Raja dan lima anggota dari BBP Jalan Tun Razak, di sini, ber-  
gegas ke lokasi dan men-

dapati banyak rumah rosak akibat kejadian puting beliung itu.

"Hasil pemeriksaan kami mendapati, tiada mangsa dilaporkan cedera dalam kejadian ini kerana masing-masing berjaya menyelamatkan diri.

"Anggota kami membantu menebang batang dan dahan pokok yang menimpa rumah penduduk dengan dibantu 15 anggota Jabatan Pertahanan Awam Malaysia (JPAM) Kota Setar," katanya ketika ditemui di lokasi kejadian, di sini, semalam.

Beliau berkata, puting beliung itu adalah yang keempat berlaku di dua daerah di negeri ini dan berikutan itu, mereka sudah

bersedia memberi khidmat bantuan kepada penduduk berdasarkan kejadian yang sama berlaku sebelum ini.

Sementara itu, **Jabatan Meteorologi Malaysia (Met-Malaysia)** percaya pembentukan puting beliung di Kedah, semalam, akibat angin sejuk dari Tanah Besar China sempena Monsun Timur Laut bermula awal November.

**Pengarah Bahagian Khidmat Korporat dan Komersial Jabatan Meteorologi Malaysia Dr Mohd Hisham Mohd Anip**, ketika mengesahkan perkara itu berkata, pergerakan angin sejuk ke perairan Terengganu dan Kelantan diiringi angin lain menjadikan Kedah sebagai lokasi pembentukannya se-

belum bergerak aktif.

"Kita menjangka angin sejuk ini akan tiba di perairan Pantai Timur Semenanjung malam ini (tadi) dan percaya kewujudan puting beliung di Kedah disebabkan ketibaan angin yang mengiringi angin sejuk itu," katanya ketika dihubungi, semalam.

Dr Mohd Hisham berkata, dengan pergerakan angin sejuk menghala perairan pantai timur, ia akan mengurangkan aktiviti cuaca di negeri utara termasuk Kedah.

Katanya, beliau tidak menolak kemungkinan kejadian puting beliung di Kedah, semalam adalah yang terakhir sebelum peralihan monsun.



# Kedah dilanda puting beliung kali kelima

Oleh MOHD. RAFIE AZIMI  
dan LILIS SURIANI OMAR  
pengarang@utusan.com.my

■ ALOR SETAR 12 NOV.

**B**UAT kali kelima dalam tempoh sebulan, puting beliung 'mengganas' lagi di negeri ini dengan yang terbaru berlaku di Kampung Sungai Nonang, Mukim Tebengau dekat sini hari ini.

Dalam kejadian kira-kira pukul 2.45 petang itu, lebih 20 buah rumah, empat kedai dan sebuah kandang kambing mengalami kerosakan akibat dilanda pusaran angin selama kira-kira empat ke lima minit.

Salah seorang penduduk di situ, Che Tom Ahmad, 55, berkata, ketika kejadian beliau tinggal bertiga bersama anaknya Azrul Zainal, 14, dan Zahirah Zainal, 16, sementara suaminya keluar bekerja.

"Saya baru selesai mandi dan mencuci pakaian apabila terdengar bunyi yang amat kuat. Tiba-tiba, angin kencang datang, menerbangkan zink dan menyebabkan struktur bumbung rumah jatuh betul-betul di pintu hadapan.

"Panik dengan keadaan itu, kami

cuba berlari keluar tetapi pintu hadapan disekat bumbung rumah yang jatuh menyebabkan kami terperangkap di bahagian kecil ruang tamu. Kami hanya mampu menyebut nama tuhan ketika itu melihat kayu struktur bumbung jatuh satu per satu," katanya kepada *Utusan Malaysia* di sini hari ini.

Ini merupakan kejadian kelima seumpamanya di negeri ini dengan yang pertama berlaku pada 14 Oktober lalu di Kampung Alor Besar, Pendang diikuti Kampung Dalam Kota, Lepai; Kampung Sungai Baru dan Taman Wira Mergong.

Jirannya, Azizah Yahya, 48, pula memberitahu, ketika kejadian beliau dan tiga anaknya berlindung di dalam bilik ketika bumbung rumahnya diterbangkan angin kencang.

"Sebaik keluar, saya dapati kereta Proton Wira milik suami yang diletak di bawah bangsal beralih kira-kira 10 meter ke belakang dan terangkat di atas akar pokok memelam yang tumbang dengan cermin belakangnya pecah," katanya.

Sementara itu, Penolong Pengarah Bahagian Siasatan, Jabatan Bomba dan Penyelamat Kedah, Penguasa Kanan Bomba 1, Mohamad Yunus Abu, berkata, pemerhatian

awal pihaknya mendapati terdapat lima rumah yang diklasifikasikan rosak teruk akibat kejadian itu.

"Kami menerima panggilan mengenai kejadian ini kira-kira pukul 3 petang," katanya.

Dalam pada itu, Fenomena kejadian angin ribut sehingga menyebabkan pembentukan puting beliung di Kedah dijangka terakhir selepas angin sejuk Monsun Timur Laut yang bertiup dari Tanah Besar China dikesan sudah memasuki atmosfera kawasan pantai Timur Semenanjung sejak lewat petang ini.

Pegawai Meteorologi Kanan Pusat Cuaca Nasional, Jabatan Meteorologi Malaysia, Dr. Mohd. Hisham Mohd. Anip berkata, keadaan itu secara tidak langsung merendahkan suhu di sekitar dan mengurangkan berlakunya pergerakan aktif di udara kawasan berkenaan.

"Apabila angin sejuk itu mula masuk ke Terengganu dan Kelantan, peredaran suhu udara akan menurun dan akan menyebabkan berlakunya hujan. Di Kedah juga berlaku hujan sebelum ini tetapi udara panas yang masih berlegar di atmosfera menggalakkan pembentukan awan ribut dengan kekuatan tinggi," katanya.



ORANG RAMAI melihat kerosakan beberapa rumah yang dilanda puting beliung di Kampung Sungai Nonang, Simpang Empat Kangkong, Alor Setar, Kedah, semalam. - BERNAMA



# Another twister leaves trail of destruction

## Fourth mini tornado strikes Kedah

By OH CHIN ENG  
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**ALOR SETAR:** Less than two weeks after a mini tornado struck the town, another one made its presence felt, this time damaging 20 houses, four shophouses and a goat pen.

The freak storm that happened at about 2.30pm at Kampung Sungai Nonang, Jalan Batas Paip here, also damaged several vehicles, uprooted trees and blew off the roof panels of several buildings.

Also, a villager said his car was "carried" 10m away from his porch.

Kedah Fire and Rescue Department investigation division assistant director Mohamad Yunus Abu said there were no reports of anyone being injured by the storm.

He said his men and several personnel from the Kota Setar Civil Defence Department, led by C. Sehgar, rushed to clear fallen trees before nightfall.

National Weather Centre senior meteorological officer Dr Mohd Hisham Mohd Anip said it was the fourth mini tornado to hit the country this year, all in Kedah.

The first was in Pendang on Oct 14, the second in Mergong on Oct 31, and the third also in Mergong on Nov 2.

"It could happen again but the chances are slim. I hope this will be the last one as the weather turns for the better next month," he said.

Dr Mohd Hisham also said that yesterday's mini tornado was caused by north-easterly winds blowing from the South China Sea.

"We expect the wet weather to move to the east coast soon," he said.

Villager Jamal-Mat Ali, 49, was not at home when the storm hit and was relieved to find that his family members escaped injury.

"My car, which was parked in the porch, was sucked up by the tornado and I found it lying on top of an uprooted tree about 10m from my house. Other villagers helped me move it back to my home," he said.

The roof of his house was also damaged, along with most of his furniture.

His daughter Nurul Atiqah, 17, who is sitting for her SPM examination, was upset as her revision books were damaged during the storm.

Another villager, Nur Faezah Harun, 46, was stunned when she saw roof panels being ripped off by the mini tornado.

"I was outside when I saw it blowing away the roofs of other houses. And when it started moving towards me, I rushed into my house.

"I hugged my four-month-old daughter while my four other children hid in the house for safety," she said.

The roof of her home was also partly blown off by the storm but she was thankful that none of her family members was injured in the incident.



PRIME NEWS

# Third landspout hits Kedah

**NATURE'S WRATH:** 15 houses and 4 shops damaged, trees uprooted

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**K**EDAH was struck by a 100kph mini-tornado yesterday, the third such incident in the state during the intermonsoon period.

The landspout in Simpang Kuala lasted only five minutes but left in its wake a trail of destruction, with at least 15 houses and four shops damaged, and many trees uprooted.

The twister hit Kampung Sungai Nongnang along Jalan Kuala Kedah-Yan at 2.45pm, but fortunately, no

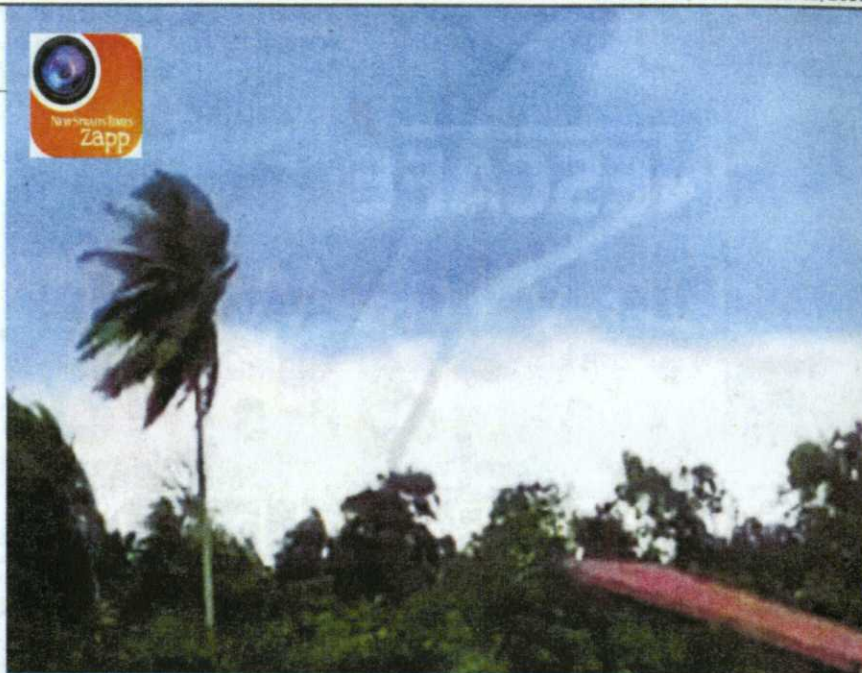
one was injured.

Meteorological Department commercial and corporate services division director Dr Mohd Hisham Mohd Anip said based on the damage, the tornado was blowing at a speed of up to 100kph.

Azizah Yahya, 48, who was in her house when it occurred, said she heard the howling of a strong wind followed by a thunderous sound.

"I heard a rumbling sound near the porch and dashed out to check. There I saw my car being slammed against a tree."

Moments later, she said, the roof of her house was blown away.



*The landspout that hit Simpang Kuala yesterday.*

"I grabbed my three children and we sought shelter to avoid falling objects."

Che Tom Ahmad, 55, said she was about to take a bath when she heard a loud thud.

What came next was nothing that she had ever experienced.

"The tornado blew off the roof in minutes. I told my two children to seek shelter in the living room while I prayed hard to be spared from getting hit by flying zinc and pieces of

wood."

Rosliyah Yaacob, 49, said she was outside her house when a fierce wind started blowing.

"Seconds later, the tornado hit the area, uprooting trees and blowing away the roofs of houses."

State Fire and Rescue Department investigation division assistant director Mohd Yunus Abu said 12 firemen were despatched to the scene after receiving a distress call at 3.07pm.

He said at least five of the affected premises were badly damaged.

Hisham attributed yesterday's event to the cold winds and high pressure formation in the coastal areas of Kedah.

"The affected village was hit by the passing cold and strong wind because of its flat landscape."

But he said yesterday's landspout would likely be the last as the intermonsoon period was coming to an end.

## **Sebar berita palsu status halal bercanggah Islam**

**PUTRAJAYA** - Tindakan segelintir masyarakat menyebarkan berita palsu berhubung keraguan status halal terutamanya produk makanan yang kian menjadi trend di laman sosial, bertentangan dengan ajaran Islam.

Menurut Ketua Pengarah Jabatan Kemajuan Islam Malaysia (Jakim), Datuk Othman Mustapha, tindakan itu boleh menimbulkan keresahan dan mengundang masalah kepada masyarakat.

"Isu ini sudah terlalu lama seperti orang yang sebar tia-

da kerja lain...sebagai umat Islam sudah pasti kita tahu menyebarkan berita palsu berdosa," katanya selepas merasmikan Bengkel Pemantapan Mekanisme Pengurusan dan Tadbir Urus Halal, semalam.

Beliau berkata, pengguna jangan cepat percaya atau panik sebaliknya dapatkan pengesahan pihak berwajib.

"Kita menyediakan senarai produk makanan yang mempunyai status halal dan orang ramai boleh lihat dalam laman web Jakim," katanya mengulas sikap masyarakat yang gemar

memuat naik status halal barangan di laman sosial.

Mengenai bengkel itu, Othman berkata ia bertujuan mengenal pasti isu dan cabaran pengurusan serta pembangunan industri halal selain cadangan penambahbaikan dalam menjadi hub halal global.

Bengkel tiga minggu itu diadakan dengan kerjasama Unit Pemodenan Tadbiran dan Perancangan Pengurusan Malaysia (Mampu), Halal Development Corporation (HDC) dan **Jabatan Standard Malaysia**. - Bernama



Malaysia's  
biotechnology  
industry graduates  
from infancy.

By NATALIE HENG  
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**BIOTECHNOLOGY:** The application of scientific and engineering principles to the processing of materials by biological agents, as defined by the Organisation of Economic Co-operation and Development (OECD)

**T**HE above is sort of an umbrella term for any technological application based on the use of organisms, or their cellular components.

It covers everything from medical and health-related innovations like targeted therapies (which make use of our knowledge of cellular pathways to attack diseased cells) to agricultural tools such as marker-assisted breeding (enabling the identification of favourable genetic traits for crop improvements) to green technology-based innovations (for example, genetically-modified microbes converting substrates into bio-based products like plastics or biofuels).

The start of this millennium was a time when Malaysians held great expectations for the emerging biotechnology industry.

The hype, after all, was palpable on a global level; the first human genome had just been sequenced, biotech company stocks were rising, and in Malaysia the newspapers were talking about a RM580mil BioValley complex to be built in Dengkil.

This 485ha (1,200-acre) integrated industrial park was to be biotech's equivalent of IT's Multimedia Super Corridor; another piece of the puzzle towards then Prime Minister Tun Dr Mahathir Mohamad's Vision 2020. But the scheduled completion date - 2005 - came and went, and BioValley never materialised.

Neither did the ecosystem of career opportunities an entire generation of biotech graduates had banked on. The market they found was saturated - too many degree holders and not enough biotech firms.

Many ended up becoming sales representatives for scientific and medical equipment, or hospital technicians.

It has been almost a decade since the launch of the National Biotechnology Policy (2005) and the industry is just beginning to pick up speed.

Creating the right ecosystem for the industry is in some way like choreographing a ballet - many moving parts need to operate in synchrony for it to work.

It was a chicken-or-egg scenario in the early 2000s - to produce a qualified workforce first, or set up companies? Without the workforce there could be no companies, but without those companies, the graduates would have nowhere to work. An abundance of jobless biotech graduates at the time may have scared off others, but someone had to take the first step, and seeds planted years ago are finally beginning to bear fruit.

Policies, infrastructure and incentive packages have attracted major global players to Malaysia.

At the forefront of this is the **Malaysian Biotechnology Corporation**, a government body charged with acting as a facilitator

# Biotech scene emerges



A researcher from US-based industrial biotech company Verdezyne talking about the manipulation of chemical pathways that allows yeast to digest vegetable oil to produce dodecanedioic acid (DDDA), which can be used to make nylon (above right). Sime Darby has a 30% stake in Verdezyne.



BioXCell CEO Rizatuddin Ramli believes that two or three new additions to the biopark would create an 'optimal' ecosystem there.



IP protection, stability and infrastructure costs put Malaysia on top of Sengenics' list, says its founder Dr Ariff Anwar.

for the entire biotech value chain.

There are some issues which must be tackled holistically by multiple players within business circles, the education system and government; for example, the research and business communities could build a better bridge.

As far as facilitation is concerned, Biotech Corp - as the corporation is better known - has made significant progress; the last five years have seen the gradual population of a network of integrated industrial parks across Malaysia, transforming the local landscape for biotech.

## Catching up

Five years ago there was no biopharma space in Malaysia, said Biotech Corp Biomedical Division senior vice president Jay Padasian.

Today, the number of established global biotech firms has grown: "(That) has actually gone a long way to removing an important psychological block, not just for investors, but for us," Padasian said.

One key attraction is the logistical convenience offered by Malaysia's bioparks, a set-up that has become popular in many countries and is seen increasingly as a fixture of the global bioscience supply chain.

There are certain advantages to locating your business in one of the strategically located plug-and-play concept bioparks: ready offices, auditoriums, shared laboratory spaces and centralised utilities, for example, help reduce capital expenditure.

Ready-made incentive packages combined with incentive structures customisable to the needs of the company is a recipe that seems to be working.

Such incentive packages include

ulation that represents the "gene pool of Asia".

Some forward-thinking companies made the move to put down roots here even before the recent influx of large biotech firms. One notable example is Sengenics, the first genomics-based diagnostics services company to be based outside the United States.

About nine years ago, its founder and executive director Dr Ariff Anwar did a detailed analysis on the risks and costs associated with setting up the company in different countries.

Among the candidates were Dubai, Thailand and Taiwan - but Malaysia came out on top.

"We looked at IP protection (Malaysia is among the few countries in the region that has set up courts specialised to solve intellectual property matters), stability in terms of government and the cost of operating infrastructure," he said at the convention.

The tax free incentives of being conferred BioNexus company status have also proved to be very attractive.

Encouragingly, Ariff believed that the Malaysian workforce is full of talent.

## Game changers

Among the additions to Malaysia's biotech landscape are French Chemical company Arkema, the Korean-based food and bio business CJ Cheil Jedang, and renewable chemicals and advanced biofuels company Gevo at the Kertih Biopolymer park in Terengganu, within the East Coast Economic Region.

The first two firms are expected to start revenue-generating operations next year, to produce amino acid additives for poultry and sulphur derivatives for the petrochemicals market, among other activities. Gevo is set to begin construction of its premises before the middle of next year.

All three, which need an integrated value chain of raw material supply, came in on customised incentives negotiated through Biotech Corp and the Malaysian Investment Development Authority (MIDA) and approved by the National Economic Council.

Other facilities based on the plug-and-play concept are also coming up in the form of the Kuantan Integrated Biopark in Gebeng, which is set to have its own deep-water port by 2016 and will focus on industrial applications involving palm oil biomass and

palm oil-based feedstocks.

Gambang in Pahang and Pasir Mas in Kelantan are both being marketed as integrated Halal Industrial Parks which will focus on high-value downstream food products such as nutraceuticals, pharmaceuticals, sauces and other agro-based products.

These ventures are supported by a set of planning policies designed to connect Malaysia's biotech ambitions to the wider

## Some bioparks at the forefront of Malaysia's evolving Biotechnology Landscape

### Northern Corridor Economic Region

- **Kulim Hi-Tech park**
- Latest biomedical player: global leader in healthcare **Abbott** is building an intracocular lens (IOLs) manufacturing facility
- **Investment:** RM192mil

### East Coast Economic Region

- **Kertih Biopolymer park**
- Latest biotechnological players: French biotechnological firm **Arkema**
- Korean-based food and bio business **CJ Cheil Jedang**
- Renewable chemicals and advanced biofuels company **Gevo**
- **Total Investment:** RM4bil

### Iskandar Malaysia in southern Johor

- **BioXCell**
- Latest biopharma and bioindustrial players India's **Biocon**
- **Stellis Biopharma**, US biotechnological firm **Glycos**
- **Investment:** RM1.6bil

### Sabah Development Corridor

- **Palm Oil Industrial Cluster**
- US-based renewable sciences company **Elevance** will use Nobel Prize-winning technology to convert palm oil into specialty chemicals
- **Investment:** RM1.5bil



# KERATAN AKHBAR

## THE STAR (INSIGHT) : MUKA SURAT 13

### TARIKH : 13 NOVEMBER 2014 (KHAMIS)



**Taking shape:** The arrival of big pharma companies like Biocon and Stelis Biopharma, which are setting up major operations in the BioXCell biopark, is helping to remove an important psychological block. By this time next year, a number of major multinational will begin operations, and Malaysia's biotech landscape will no longer just be an idea, but a revenue-generating reality.

framework of its related upstream (raw materials farming) and downstream (bioindustrial or biopharma) industries. The catchphrase encapsulating all of this is one you've probably heard a lot of lately – the bioeconomy.

By coming up with its own national bioeconomy initiative, Malaysia has kept up with an emerging global trend.

It became the second Asian country to come up with its own Bioeconomy Transformation Programme, following Australia, New Zealand and China (2007), Canada (2009) and the European Union (2010); with Malaysia coming on board the same year as the

United States, Finland and Russia in 2012.

Of course as the Larta Institute's Shukla pointed out, there is a lot of legacy infrastructure from Malaysia's days as a world leader in precision manufacturing for the semiconductor industry – for example Kulim Hi-tech Park, which has been around since the early 1990s and has been evolving with the times.

Just last month, one of the world's leading health care companies, Abbot, announced an investment there worth US\$60mil (RM192mil) in a manufacturing facility for intraocular lenses – which are implanted in eyes after the removal of natural lenses

clouded by cataracts.

Further down south, BioXcell is a shiny new biopark located a hop and a skip away from Singapore, in the Iskandar region of Johor. It has attracted some big names in the biopharma space.

Its clientele include Biocon, India's largest listed biopharma company, which has built the largest integrated insulin manufacturing facility in Asia. The plant is in the commissioning stage and is set to begin commercial production in about a year.

Stelis Biopharma, another one of India's fast-growing generic drug manufacturers and exporters, is setting up an advanced bio-therapeutic

manufacturing and bio-processing facility. Stelis is keenly interested in the area of biosimilars, an active drug substance made from or derived from a living organism by recombinant DNA or controlled gene expression.

According to Malaysian BioXCell Sdn Bhd CEO Rizatuddin Ramli, the company recently decided to look at increasing its commitment in the project to US\$70mil (RM235mil) from its original US\$25mil (RM83.8mil) – which means larger-scale production and new drug pipelines for additional products commissioned by its customers.

The final tenant will be Houston,

Texas-based industrial biotech firm Glycos Biotechnology.

The gradual populating of these new bioparks – Rizatuddin says two or three new additions would create an "optimal" ecosystem – will do more than remove a psychological block regarding our perception of Malaysia as a destination for biotech.

It will go a long way towards building up the middle stages of the biotech value chain; the importation of ready-made technologies and foreign companies will hopefully be the beginning of a wider ripple effect.

**Next week:** Recipe for innovation