

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

Bil	Berita	Media	Capaian Berita Penuh
12 NOVEMBER 2018 (ISNIN)			
1.	<u>Serah laporan penuh Lynas pada 27 November</u> Pengerusinya, Prof Datuk Dr Mazlin Mokhtar, berkata laporan berkenaan akan diserahkan kepada Menteri Tenaga, Sains, Teknologi, Alam Sekitar dan Perubahan, Yeo Bee Yin yang bakal membentangkannya kepada Kabinet untuk tindakan susulan.	Berita Harian	Klik pada tajuk berita
2.	<u>Kilang Lynas tidak beri kesan negatif - Pengarah JAS Pahang</u> Perkara itu dinyatakan Pengarah Jabatan Alam Sekitar (JAS) Pahang, Rosli Zul dan Pakar Perubatan Kesihatan Awam Kementerian Kesihatan, Dr Nur Aiza Zakaria pada sesi pendengaran awam Jawatankuasa Eksekutif Penilaian Operasi LAMP di sini, hari ini.	Berita Harian	Klik pada tajuk berita
3.	<u>Lynas Executive Committee to submit report on Nov 27</u> Committee chairman Professor Datuk Dr Mazlin Mokhtar said the report would be sent to Energy, Science, Technology, Environment and Climate Change Minister, Yeo Bee Yin.	Malaymail	Klik pada tajuk berita
4.	<u>Lynas: Laporan jawatankuasa eksekutif dihantar kepada kerajaan 27 Nov</u> Pengerusi jawatankuasa eksekutifnya, Profesor Datuk Dr Mazlin Mokhtar berkata laporan itu akan dihantar kepada Menteri Tenaga, Sains, Teknologi, Alam Sekitar dan Perubahan Iklim Yeo Bee Yin.	Astro Awani	Klik pada tajuk berita
5.	<u>TNB komited guna tenaga boleh diperbaharui</u> Kementerian Tenaga, Sains, Teknologi, Alam Sekitar dan Perubahan Iklim (MESTECC) menyasar untuk meningkatkan saranan tenaga boleh diperbaharui bagi gabungan tenaga	Berita Harian	Rujuk lampiran 1

	daripada dua peratus kepada 20 peratus bagi tempoh 2025 hingga 2030.		
11 NOVEMBER 2018 (AHAD)			
6.	<u>RE, gabungan tenaga, kaedah TNB tangani kenaikan kos</u> Kementerian Tenaga, Sains, Teknologi, Alam Sekitar dan Perubahan Iklim (MESTECC) menyasar untuk meningkatkan saranan tenaga boleh diperbaharui bagi gabungan tenaga daripada dua peratus kepada 20 peratus bagi tempoh 2025 hingga 2030.	Berita Harian	Klik pada tajuk berita
7.	<u>Renewable energy TNB's way to tackle escalating cost</u> The Energy, Science, Technology, Environment and Climate Change Ministry is targeting to grow renewable energy's (RE) proportion of generation mix from the current two per cent to 20% by 2025-2030.	The Sun	Klik pada tajuk berita
8.	<u>'Operasi Lynas patuh semua syarat pelesenan'</u> Kerajaan melalui Kementerian Tenaga, Sains, Teknologi, Alam Sekitar dan Perubahan Iklim bersetuju menubuhkan Jawatankuasa Eksekutif Penilaian Operasi Lynas yang pada awalnya di pengurusan oleh Anggota Parlimen Kuatan, Fuziah Salleh.	Malaysiakini	Klik pada tajuk berita
9.	<u>Lynas: Laporan dihantar kepada kerajaan</u> Pengerusi jawatankuasa eksekutifnya, Profesor Datuk Dr Mazlin Mokhtar berkata, laporan itu akan dihantar kepada Menteri Tenaga, Sains, Teknologi, Alam Sekitar dan Perubahan Iklim, Yeo Bee Yin.	Sinar Harian	Klik pada tajuk berita
10.	<u>Lynas goes through three levels of AELB scrutiny for licence</u> The Lynas Advanced Materials Plant (LAMP) has to go through three evaluation stages before being granted full operation licence by the Atomic Energy Licensing Board (AELB).	Bernama	Klik pada tajuk berita

11.	<u>Lynas poses no negative effect on environment, health</u> Pahang Department of Environment (DOE) director Rosli Zul said monitoring involved obtaining samples from two monitoring stations in the river.	Bernama	Klik pada tajuk berita
12.	<u>Tong apa ni?</u> “Bahan ini tidak boleh dibuang merata-rata. Pengadu perlu buat aduan kepada Jabatan Alam Sekitar (JAS) untuk tindakan lanjut,”katanya menerusi aplikasi WhatsApp kepada Sinar Harian.	Sinar Harian	Klik pada tajuk berita
13.	<u>Gempa bumi sederhana utara laut Maluku</u> Menurut kenyataan Jabatan Meteorologi Malaysia, pusat gempa itu adalah 78km barat laut dari Ternate, Indonesia pada kedalaman 10km.	Sinar Harian	Klik pada tajuk berita
14.	<u>Percaturan politik Mahathir</u> PROFESOR ULUNG DATUK DR. SHAMSUL AMRI BAHARUDDIN, Felo Akademi Sains Malaysia (FASc) menyifatkan anugerah tertinggi itu amat bermakna dan signifikan kepada Dr. Mahathir kerana pada 30 Ogos tahun depan, Maharaja Akihito yang berkuasa selama 29 tahun akan turun takhta bagi memberi laluan kepada Putera Mahkota Naruhito untuk ditabalkan sebagai Maharaja Jepun yang ke-126.	Utusan Malaysia	Klik pada tajuk berita
15.	<u>Renewable energy mix TNB's way to tackle escalating cost</u> The Energy, Science, Technology, Environment and Climate Change Ministry is targeting to grow renewable energy's (RE) proportion of generation mix from the current two per cent to 20 per cent by 2025-2030.	Malaymail	Klik pada tajuk berita
16.	<u>Conference on biochemists, molecular biologists held next August</u> The event is supported by the Malaysia Convention and Exhibition Bureau, Academy of	The Star	Rujuk lampiran 2

	Sciences Malaysia, Veterinary Association Malaysia and L'oreal (Malaysia).		
17.	<u>Keeping their heads above water</u> The Meteorological Dept says heavy rains are coming soon and with these, floods too. Victims, who have endured the wrath of the northeast monsoon winds for years, aren't lying low.	The Star	Rujuk lampiran 3
10 NOVEMBER 2018 (SABTU)			
18.	<u>Ministers should err on the side of caution when making statements</u> In the most recent case, Energy, Science, Technology, Environment and Climate Change Minister Yeo Bee Yin issued a reactive statement regarding Lynas, which was granted an extension until Feb 15 to store waste materials in its Kuantan plant.	New Straits Times	Klik pada tajuk berita
19.	<u>Pollution charge on use of plastic bags in Malaysia by 2021</u> Malaysia may introduce a state-enforced pollution charge on plastic bags used in hypermarkets, chain stores and restaurants within three years from 2019, said Minister of Energy, Science and Technology, and Climate Change Yeo Bee Yin.	Ummid.com	Klik pada tajuk berita

TEMPATAN

Bil	Berita	Media	Capaian Berita Penuh
12 NOVEMBER 2018 (ISNIN)			
20.	<u>Kempen MBSA, F&N kumpul 175,161 kg. bahan kitar semula</u> Shahrin memberitahu, tahun ini, sebanyak 175,161 kilogram (kg.) bahan kitar semula berjaya dikumpulkan berbanding 143,946.2 kg. pada 2017 dan 1,044 unit kutipan sisa elektronik.	Utusan Malaysia	Klik pada tajuk berita

21.	<u>Of lightning and large trees</u> The circuit breaker in my house and the main fuses from Tenaga Nasional Berhad (TNB) in the electricity meter were toasted.	The Star	Klik pada tajuk berita
22.	<u>Tunnel flooded following downpour</u> The tunnel from Jalan Tun Razak towards KLCC was flooded after almost two hours of heavy downpour in the capital yesterday.	Malaymail	Rujuk lampiran 4
23.	<u>'Lynas poses no threat to health, environment</u> The water quality at Sungai Balok, which is located near the Lynas Advanced Materials Plant (LAMP) in Gebeng here, shows an improvement in the past six years when the factory was operating.	New Straits Times	Rujuk lampiran 5
24.	<u>Banjir lumpur di Ampang</u> Beberapa lokasi di sekitar Ampang ditenggelami banjir kilat akibat hujan lebat berterusan hampir sejam bermula jam 5 petang semalam.	Sinar Harian	Rujuk lampiran 6
25.	<u>Banjir kilat landa empat daerah</u> Empat daerah masing-masing dua di Selangor dan Pahang dilanda banjir kilat akibat hujan lebat yang bermula semalam.	Utusan Malaysia	Rujuk lampiran 7
11 NOVEMBER 2018 (AHAD)			
26.	<u>Kurangkan risiko banjir: Exco</u> Kerajaan negeri sudah bersiap sedia untuk berhadapan dengan fenomena Monsun Timur Laut yang dijangka bermula penghujung November ini sehingga Mac tahun depan yang membawa taburan hujan yang banyak sehingga menyebabkan bencana banjir.	Sinar Harian	Klik pada tajuk berita
27.	<u>TNB to boost renewable energy to fight escalating electricity cost</u> The government is targeting to grow renewable energy's (RE) proportion of generation mix from the current 2% to 20% by 2025-2030, amid escalating prices of fuel to supply the electricity industry.	Free Malaysia Today	Klik pada tajuk berita

28.	<u>Lynas confident of hearing after panel visit</u> Ahead of the public hearing today, the Lynas executive review committee visited the rare earth refinery in Gebeng here.	The Star	Rujuk lampiran 8
29.	<u>Tanam 10,000 pokok pulihara alam sekitar</u> AEON Co (M) Berhad menganjurkan aktiviti menanam 10,000 anak pokok dalam usaha memulihara alam sekitar sempena pembukaan pasar raya ke-28 di Bandar Baru Nilai, semalam.	Metro Harian	Rujuk lampiran 9
30.	<u>Awards for food microbiologist, law students</u> Dr Chai Lay Ching, a food microbiologist from Universiti Malaya's (UM) Faculty of Science, has been named as one of the recipients of the L'Oreal-Unesco for Women in Science Award.	The Star	Rujuk lampiran 10
31.	<u>Promoting interest in STEM</u> The next time you're worried about parking check your app.	The Star	Rujuk lampiran 11
32.	<u>Awards for innovative projects</u> The World Innovation Summit for Education has opened the submission period for the 2019 WISE Awards.	The Star	Rujuk lampiran 12
33.	<u>Revolusi Industri 4.0</u> Dengan kemajuan teknologi pada hari ini, tidak mustahil pada masa hadapan bakal wujud "doktor robot" yang dilengkapi segala maklumat penyakit.	Utusan Malaysia	Rujuk lampiran 13
34.	<u>Job market driven by digital skills</u> Technology is changing our current work environment and companies have to prepare to face the gig economy, writes Balgis Lim.	New Straits Times	Rujuk lampiran 14
10 NOVEMBER 2018 (SABTU)			
35.	<u>Lynas pelawa pelawat ke lojinya</u> Lacaze berkata adalah tidak adil untuk menyamakan Lynas dengan kilang penapis nadir bumi sebelum ini di Bukit Merah, Perak kerana berbeza dengan kilang penapis itu, Lynas tidak melepaskan sisanya ke alam sekitar dengan	Utusan Malaysia	Klik pada tajuk berita

	sewenang-wenang, manakala sisa buangan diurus dengan sewajarnya sebelum dilepaskan seperti disyaratkan undang-undang.		
36.	<u>Nextgreen, Nomura and IHI Corporation to explore Green Technology partnership</u> Nextgreen Global Bhd (Nextgreen), Nomura Holdings, Inc (Nomura) and IHI Corporation (IHI) yesterday entered into a Memorandum of Understanding (MoU) to explore collaboration and investment for Green Technology Park in Pahang (GTPP), Malaysia.	The Borneo Post	Klik pada tajuk berita
37.	<u>Customers always come first for TNB</u> The slogan, in line with the byword that “customers always come first”, has seen TNB taking an evolutionary step towards adopting a value-centric approach to provide superior service as it keeps pace with the rapid innovative changes in the energy industry.	New Straits Times	Klik pada tajuk berita
38.	<u>Thunderstorm causes panic in Ipoh village</u> “I stayed there and waited for the storm to end,” she added.	The Star	Rujuk lampiran 15
39.	<u>Landslip outside showroom has employees worried</u> Employees of a home appliances showroom in Section 16, Petaling Jaya were shocked to find a big gaping hole in the ground outside the premises.	The Star	Rujuk lampiran 16
40.	<u>M’sians unprepared for lighting strikes</u> Malaysia among the highest incidence of lighting activity in the world, but the country is woefully unprepared for these deadly strikes.	The Star	Rujuk lampiran 17

ANTARABANGSA

Bil	Berita	Media	Capaian Berita Penuh
12 NOVEMBER 2018 (ISNIN)			
41.	<u>“Angin Syaitan’ burukkan kebakaran di California</u> Angin itu melanda kawasan di Los Angeles di mana kebakaran dikenali sebagai Woolsey Fire marak di daerah Venture dan meragut sekurang-kurangnya dua nyawa sejak khamis lalu.	Kosmo!	Rujuk lampiran 18
11 NOVEMBER 2018 (AHAD)			
42.	<u>12 maut banjir kilat di Jordan</u> Seramai 12 orang maut manakala lima lagi masih hilang dalam bencana bajir kilat di negara ini semalam.	Utusan Malaysia	Rujuk lampiran 19
10 NOVEMBER 2018 (SABTU)			
43.	<u>Lantai bergegar kuat, tingkap tercabut</u> Dalam malapetaka itu, enam orang maut dan lebih 90 orang cedera, selain ribuan rumah dan kenderaan musnah.	Utusan Malaysia	Rujuk lampiran 20

LAMPIRAN 1
BERITA HARIAN (BISNES): MUKA SURAT 22
TARIKH: 12 NOVEMBER 2018 (ISNIN)

TNB komited guna tenaga boleh diperbaharui

Kementerian Tenaga, Sains, Teknologi, Alam Sekitar dan Perubahan Iklim (MESTECC) menyasar untuk meningkatkan saranan tenaga boleh diperbaharui bagi gabungan tenaga daripada dua peratus kepada 20 peratus bagi tempoh 2025 hingga 2030.

Ini menjadi petanda baik bagi industri bekalan elektrik (ESI), yang kini bergelut dengan peningkatan harga arang batu global. Sasaran baharu ini mungkin membolehkan tarif ditetapkan pada kadar lebih stabil pada masa depan, menurut penganalisis.

Bagi menghadapi cabaran berkenaan, industri sebenarnya bersedia mengambil langkah beberapa tahun ke hadapan menerusi kecekapan penjaan tenaga yang lebih baik melalui loji jana kuasa arang batu.

Semua loji jana kuasa arang batu baharu kini menggunakan teknologi *ultra-supercritical* (USC) yang membakar arang batu dalam kuantiti lebih kecil, namun menjana lebih tenaga dan mematuhi piawaian pelepasan.

Jana kuasa Manjung 4,100 MW milik Tenaga Nasional Bhd, yang memulakan operasi pada 2015, adalah loji jana kuasa arang batu USC pertama di Asia Tenggara.

Ia boleh menghasilkan elektrik mencukupi untuk dua juta rumah dengan pengurangan tiga peratus penggunaan arang batu.

Melangkah ke hadapan, kerajaan menyediakan beberapa mekanisme untuk meningkatkan sumbangan tenaga boleh diperbaharui dalam penjaan kuasa.

Syarikat utiliti nasional

Ini termasuk Skim Pemeteran Tenaga Bersih (NEM), loji solar berskala besar (LSS), Skim Pembiayaan Sukuk Hijau dan mekanisme Tarif Galakan.

TNB, syarikat utiliti nasional komited menyokong agenda tenaga boleh diperbaharu kerajaan.

Sebagai sebahagian daripada Pelan Strategik 10 tahunnya, TNB bercita-cita menjadi peneraju ASEAN dalam sektor tenaga boleh diperbaharui ketika permintaan terhadap tenaga

hijau melonjak.

Syarikat itu memulakan LSS terbesar di negara ini melalui projek 50 megawatt (MW) di Kuala Langat, Selangor dan beberapa usaha sama berkaitan stesen jana kuasa biomas dan biogas.

Usaha terbaru TNB adalah melalui anak syarikat tenaga boleh diperbaharui yang mana syarikat itu merancang menawarkan pembiayaan pakej penjaan sendiri bagi panel solar fotovolta (PV) kepada pelanggan kediaman menjelang akhir tahun ini.

Tumpuan jangka pendek kerajaan adalah meneroka projek yang boleh diperbaharui berskala besar dan berdaya maju di bawah tarif sama.

Melalui dorongan kuat MESTECC dan sokongan kukuh TNB dan industri, negara ini bergerak ke arah memenuhi janji kepada Konvensyen Rangka Kerja Pertubuhan Bangsa-Bangsa Bersatu mengenai Perubahan Iklim untuk mengurangkan pelepasan gas rumah hijau sebanyak 45 peratus menjelang 2030.

Bernama

LAMPIRAN 2
THE STAR (CAMPUS): MUKA SURAT 19
TARIKH: 11 NOVEMBER 2018 (AHAD)

Conference on biochemists, molecular biologists held next August

THE 27th Federation of Asian and Oceanian Biochemists and Molecular Biologists (FAOBMB) Conference is being held in Malaysia for the first time in 21 years next August.

Universiti Tunku Abdul Rahman (UTAR) head of programme of postgraduate studies Prof Lim Yeng Mooi says the conference will be held in conjunction with the 44th Annual Conference of the Malaysian Society for Biochemistry and Molecular Biology (MSBMB).

Themed "Biomolecules: Networks and Systems", with a special symposia on "Mosquito-Borne Illnesses", the conference will be held from Aug 19 to 22 at the

Berjaya Times Square Hotel, Kuala Lumpur.

Prof Lim, who is also the Centre for Cancer Research chairperson, says the focus will be on new discoveries in genetics to better

understand how biomolecular processes and human cell networks come together to form a system.

She adds that these processes affect human behaviour, cellular damage, diseases and disorders.

With this knowledge, she adds, scientists can find and create interventions for diseases and disorders.

"We mainly want to gather renowned scientists from the Asia Pacific region and Malaysia to

report their findings (for issues) that cater to this region."

She says the conference will showcase the achievements of biochemistry and biomolecular scientists in the region.

Over four days, 18 symposia sessions and three forums (Women in Science, Education and Young Career Development) will be held to discuss issues related to academia and research within the Asia Pacific region.

MSBMB is one of the oldest scientific societies in Malaysia, established in 1973 as a professional body representing local biochemists and molecular biologists.

She says the symposia will

include experts from New Zealand, Spain, China, the United States, Singapore, Korea and Thailand.

One of the sub-themes of the symposia is research questions for mosquito-borne illnesses, which Prof Lim says, are a problem in tropical countries such as Malaysia.

The symposia will have prominent scientists from countries such as Taiwan and Brazil to present their findings.

Two other societies participating in the conference are the Organisation for Women in Science for Developing World, Malaysia Chapter and the College of Pathologists, Academy of

Medicine of Malaysia.

This event is supported by the Malaysia Convention and Exhibition Bureau, Academy of Sciences Malaysia, Veterinary Association Malaysia and L'oreal (Malaysia).

The conference is expected to attract more than 500 participants comprising researchers, academics, students, industry professionals and government officials from the Asia-Pacific region.

For more information, contact Dr Fazril Razif from the Malaysia Society for Biochemistry and Molecular Biology at fazril.razif@um.edu.my. — By REBECCA RAJAENDRAM

LAMPIRAN 3
THE STAR (NATION): MUKA SURAT 4
TARIKH: 11 NOVEMBER 2018 (AHAD)



Keeping their heads above water

The Meteorological Dept says heavy rains are coming soon and with these, floods too. Victims, who have endured the wrath of the northeast monsoon winds for years, aren't lying low. They are preparing themselves in ways they can to ward off any catastrophe this time around.

> See Page 4 for reports by JO TIMBUONG, YIMIE YONG and CLARISSA CHUNG

Prepare for stormy days ahead, says weather department

By YIMIE YONG
and CLARISSA CHUNG
newsdesk@thestar.com.my

PETALING JAYA: Bring out your umbrellas and rubber boots because heavy rains are expected to lash out soon, bringing with it high chances of floodings.

Malaysian Meteorological Department director-general Alui Bahari said the north-east monsoon was expected to last until March and has already brought heavy rainfall to Kelantan and Terengganu.

Rain will make its way to Pahang and Johor before shifting to Sabah and Sarawak later in the season.

"These states are expected to experience four to six heavy rainfalls as in previous years," he said.

Alui said the first three months of the monsoon would be the worst.

"If heavy rainfall, high tides and strong winds occur, it could cause rivers to overflow," he added.

"The situation could be worsened by spring tides that take place during the new and full moons.

While the east coast is typically the worst hit by floods during the rainy season, west coast residents should also be on the alert.

Last year, Penang was also hit by major floods, where the state sought help from armed forces after winds and rain lashed out, causing landslides and falling trees.

However, Alui said he did not expect such rainfall over Penang and Kedah this season.

Universiti Kebangsaan Malaysia's Professor of Climatology and Oceanography Prof Dr Fredolin Tangang said the country was entering the monsoon period earlier compared to the average mid-November onset date.

However, he said this was within the "natural variability" of the monsoon period, which was affected by phenomena such as El Nino.

"Sea surface temperatures in the Eastern-Central Pacific Ocean are warmer than usual, indicating the progression of a weak El Nino by year end or early next year," he said.

Due to this, he said, there was likely to be heavier rainfall in southern Peninsular Malaysia, which includes Johor and the Klang Valley.

He added there was a low possibility of extreme rainfall, which could lead to large-scale flooding as the Kelantan and Terengganu floods in December 2014.

According to his research, three phenomena should take place for such extreme weather to occur.

Firstly, he said there should be cold surges from the north and secondly, the Borneo vortex, a wind circulation system should be located close to Peninsular Malaysia.

"The Madden-Julian Oscillation (MJO) must also be active and its low pressure-centre must be located near West Sumatra," he said.

The MJO is a phenomenon in which a low pressure system crosses eastward from the Indian Ocean to the Pacific Ocean.

The people can monitor weather and flood situations through <http://portal.bencana.nadma.gov.my> and www.met.gov.my or download relevant mobile applications such as myCuaca and myJPS.

LAMPIRAN 4
MALAY MAIL (TOP NEWS): MUKA SURAT 3
TARIKH: 12 NOVEMBER 2018 (ISNIN)

Tunnel flooded following downpour

KUALA LUMPUR — The tunnel from Jalan Tun Razak towards KLCC was flooded after almost two hours of heavy downpour in the capital yesterday.

Kuala Lumpur City Hall (DBKL) Enforcement Department director Azman Mahmood said the rain which started at about 4pm saw water building up in the tunnel besides causing several other areas and roads to be affected by flash floods.

According to Azman, Jalan Wirawati, Jalan Pudu Ulu, Jalan Pudu Perdana, Jalan Cheras and Jalan Kepong were also affected by flash floods.

He said City Hall personnel had been deployed to disperse traffic and divert vehicles away from the affected routes.

"We also received reports of the surau of the Hiliran Ampang People's Housing Project being inundated with water as well as of fallen trees in Jalan Ampang; and City Hall's rescue squad, as well as members of the Fire and Rescue Department, are currently carrying out works to clean up the area," he said when contacted by Bernama.

Meanwhile, the *New Straits Times* reported that five people were rescued from a car that was submerged in the aforementioned tunnel.

Kuala Lumpur Fire and Rescue Department director Nordin Pauzi said the department received a distress call at 5.56pm and rescuers who arrived at the scene found the car's occupants stranded on its roof.

LAMPIRAN 5
NEW STRAITS TIMES (NATION): MUKA SURAT 56
TARIKH: 12 NOVEMBER 2018 (ISNIN)

**'Lynas poses
no threat
to health,
environment'**

KUANTAN: The water quality at Sungai Balok, which is located near the Lynas Advanced Materials Plant (LAMP) in Gebeng here, shows an improvement in the past six years when the factory was operating.

Pahang Department of Environment (DoE) director Rosli Zul said monitoring involved obtaining samples from two monitoring stations at the river.

"The river water samples obtained from the source was at Class 4, but the samples which passed through the industrial area rose to Class 3.

"This is because the discharged water is treated before it is released, thus helping to improve the water quality of Sungai Balok," he said at LAMP Operations Evaluation Executive Committee Public Hearing here yesterday.

He said DoE inspections and studies on Lynas found that the factory processing rare earth complied with all conditions stipulated and showed a positive impact to the environment.

Health Ministry public health specialist Dr Nur Aiza Zakaria said there was no increasing trend found for cancer, eye inflammation and respiratory diseases among people in Kuantan.

She said the data was not made public as there was no instruction to do so.

She said the ministry was requested to produce a study on the rare earth factory in relation to cancer, but the study was found to be too expensive.

The Department of Occupational Safety and Health chemical management division director Hazlina Yon told the hearing that Lynas complied with all the necessary regulations.

"Lynas complied with the audit system and submitted machinery maintenance reports and took measures to improve audit findings." **Bernama**

LAMPIRAN 6
SINAR HARIAN (AMPANG.HULU LANGAT): MUKA SURAT 35
TARIKH: 12 NOVEMBER 2018 (ISNIN)

Banjir lumpur di Ampang

*Beberapa lokasi
terjejas, lalu
lintas sesak*

AHMAD ISMADI ISMAIL &
NORAFIZA JAAFAR

AMPANG

Beberapa lokasi di sekitar Ampang ditenggelami banjir kilat akibat hujan lebat berterusan hampir sejam bermula jam 5 petang semalam.

Antara lokasi yang terjejas adalah sekitar Kampung Melayu Ampang, Taman Kosas, Ampang Utama dan Taman Melur.

Banjir kilat menyebabkan lalu lintas di kawasan berkenaan sesak selain beberapa rumah turut dimasuki air.

Ahli Majlis, Majlis Perbandaran Ampang Jaya, Mohamad Samat berkata, pihaknya dimaklumkan tiga rumah di Taman Melur dimasuki air lumpur.

"Kejadian banjir lumpur ini disebabkan hujan lebat, rumah itu berada di kawasan rendah yang berhampiran dengan projek Projek Lebuhraya Sungai Besi-Ulu Kelang (SUKEL).

"Saya sudah memaklumkan kepada pihak pemaju untuk mengambil tindakan segera bagi mengatasi masalah ini," katanya.

Sementara itu, seorang ahli perniagaan, Siti Malinda Buchari, 31, berkata banjir lumpur yang melanda kawasan perumahan di Sungai Serai, di Hulu Langat tidak menjejaskan majlis perkahwinan jirannya.

"Sekitar jam 4.30 petang, hujan lebat dan berlaku ban-

jir lumpur. Alhamdulillah majlis dah selesai dan segala kelengkapan sudah dikemas.

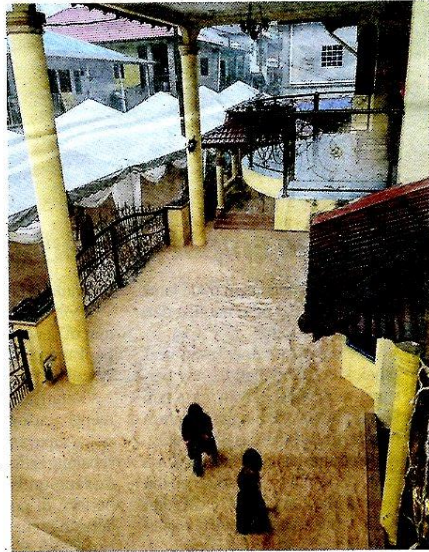
"Kalau tidak mungkin akan dihanyutkan berikutan air mencecah paras pinggang sebelum surut secara berperingkat," katanya.

Menurutnya, kawasan perumahan mereka semalam kerap dinaiki air namun tidak pernah masuk sehingga ke kawasan rumah.

"Cuma tadi sebab hujan lebat dan ada pula projek bina lebuhraya jadi kawasan kami terkena kesannya.

"Ada beberapa rumah sudah dimasuki air dan rumah saya turut terjejas di bahagian dapur," katanya.

Malinda berkongsi beberapa gambar keadaan banjir di kawasan perumahan mereka termasuk video pasangan pengantin meredah banjir untuk pulang ke rumah selepas selesai sesi fotografi.



Keadaan banjir lumpur yang melanda kawasan perumahan Sungai Serai Hulu Langat, semalam.

LAMPIRAN 7
UTUSAN MALAYSIA (DALAM NEGERI): MUKA SURAT 13
TARIKH: 12 NOVEMBER 2018 (ISNIN)

Banjir kilat landa empat daerah

Oleh NUR NAZLINA NADZARI,
ABDUL RASHID ABDUL RAHMAN
dan HARIS FADHILAH AHMAD
pengarang@utusan.com.my

■ KUALA LUMPUR 11 NOV.

EMPAT daerah masing-masing dua di Selangor dan Pahang dilanda banjir kilat akibat hujan lebat yang bermula semalam.

Seramai 200 mangsa melibatkan 50 keluarga di Selangor, manakala 141 daripada 34 keluarga lagi di Pahang dipindahkan ke Pusat Pemindahan Sementara.

Penolong Pengarah Operasi Jabatan Bomba dan Penyelamat Selangor, Mohd. Sani Harul berkata, seramai 189 orang mangsa dipindahkan di pusat pemindahan Sekolah Kebangsaan Sungai Serai, Hulu Langat, manakala 11 lagi di pusat pemindahan Dewan Orang Ramai Dengkil, Sepang.

Menurutnya, sehingga pada pukul 6 petang ini, terdapat dua pusat pemindahan yang aktif serta mempunyai mangsa manakala satu lagi iaitu di De-

wan Penghulu Mukim Cheras, Hulu Langat aktif tetapi tidak ada mangsa.

"Daripada jumlah tersebut, 105 mangsa adalah lelaki dan selebihnya adalah wanita. Selain itu, 111 daripada mangsa adalah orang dewasa, 75 kanak-kanak, 12 warga emas dan seorang orang kurang upaya (OKU)," katanya dalam kenyataan di sini hari ini.

Di **TEMERLOH**, Raub dan Lipis merupakan daerah pertama di Pahang dilanda banjir pada musim tengkujuh ini.

Pengarah Angkatan Pertahanan Awam (APM) negeri, Zainal Yusof berkata, Raub merekodkan jumlah tertinggi seramai 121 orang, manakala seramai 20 mangsa di Lipis.

"Kesemua mangsa daripada 30 keluarga di Raub dipindahkan ke Pusat Pemindahan Sementara Sekolah Kebangsaan (SK) Ulu Atok manakala tujuh keluarga di Lipis dipindahkan ke Sekolah Kebangsaan Lubuk Kulit.

"Kita melakukan pemantauan secara berterusan dengan kerjasama pelbagai pihak bagi memastikan keselamatan pen-

duduk yang terlibat," katanya di sini hari ini.

Menurut Zainal, kejadian banjir di Raub berlaku susulan hujan lebat sejak pukul 10 malam semalam sehingga menyebabkan Sungai Ulu Atok melimpah manakala di Lipis menyaksikan air Sungai Telang turut melimpah.

Dalam pada itu, Menteri Besar, Datuk Seri Wan Rosdy Wan Ismail yang melawat pusat pemindahan sementara Sekolah Kebangsaan Lubuk Kulit menasihatkan semua penduduk khususnya yang tinggal berhampiran sungai supaya bersiap sedia berpindah dan mengikut arahan pihak berkuasa.

Beliau juga meminta semua pihak dan agensi berkaitan bekerjasama serta melakukan pemantauan berterusan bagi memastikan keselamatan penduduk terbabit.

"Kini ada mangsa sudah ditempatkan di pusat pemindahan sementara dan mereka akan diberikan bantuan sewajarnya termasuk pakaian dan makanan oleh agensi terbabit," ujarnya.



ANGGOTA Angkatan Pertahanan Awam membantu memindahkan seorang warga emas susulan banjir di Kampung Lubuk Kulit, Lipis, Pahang, semalam. - IHSAN APM

LAMPIRAN 8
THE STAR (NATION): MUKA SURAT 12
TARIKH: 11 NOVEMBER 2018 (AHAD)

Lynas confident of hearing after panel visit

By ONG HAN SEAN

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KUANTAN: Ahead of the public hearing today, the Lynas executive review committee visited the rare earth refinery in Gebeng here.

Lynas chief executive officer Amanda Lacaze said the firm showed the committee every "nook and cranny" of the plant.

"We feel it is important for the committee to complete its work.

"We are very happy they spent so

long with us today," she said when met at a community gathering at SK Balok here yesterday.

Lacaze said there were also representatives from various agencies, who were with the six members of the committee.

She also said she would attend the hearing today with Lynas staff.

"This is a terrific opportunity for us to explain our philosophy of zero harm to the people, community and environment," she said.

Lynas vice-president of people and

culture Mimi Afzan Afza said the gathering was planned more than a month ago.

She added that locals were more receptive to the company's presence, as compared to a few years ago.

"It is now purely political.

"The people from Chendor to Beserah don't understand why the government is still talking about it when there are more pressing issues in the country," Kampung Balok resident Datuk Shahrudin Shamsudin, 68, said.

LAMPIRAN 9
METRO HARIAN (SETEMPAT) MUKA SURAT 24
TARIKH: 11 NOVEMBER 2018 (AHAD)

Tanam 10,000 pokok pulihara alam sekitar

AEON Co (M) Berhad menganjurkan aktiviti menanam 10,000 anak pokok dalam usaha memulihara alam sekitar sempena pembukaan pasar raya ke-28 di Bandar Baru Nilai, semalam.

Menerusi program menanam pokok di pasar raya AEON Nilai itu sebanyak 83 jenis spesies ditanam antaranya Shorea Ovalis, Kompasta Excelsa, Syzygium Gratum, Heliconia, Iris, Murayya, Mahkota Dewa, pandan dan serai.

Pengarah Urusannya Shinobu Washizawa berkata, program disertai 800 sukarelawan membabitkan pelajar sekolah, penduduk setempat dan agensi kerajaan itu bertujuan menghidupkan persekitaran kawasan berkenaan.

“Apa yang menariknya adalah penanaman anak



ARUL (empat dari kanan) menanam anak pokok dalam usaha memulihara alam sekitar sempena pembukaan pasar raya AEON ke-28, semalam

pokok dilakukan bersama komuniti dan pelajar sekolah. Aktiviti ini dijalankan kumpulan syarikat sejak 1991 bermula di pasar raya AEON Melaka.

“Sepanjang 27 tahun, sebanyak 500,000 anak pokok ditanam di negara ini manakala 11 juta pokok di peringkat global,” katanya memaklumkan pasar raya itu akan beroperasi pada

pertengahan Januari tahun depan.

Program disempurnakan Pengerusi Jawatankuasa Bertindak Sumber Manusia, Perladangan dan Hal Ehwal Bukan Islam Negeri, J Arul Kumar yang juga Ahli Dewan Undangan Negeri (ADUN) Nilai.

Hadir sama Pengerusi AEON Co (M) Berhad, Datuk Iskandar Sarudin.

LAMPIRAN 10

THE STAR (EDUCATE): MUKA SURAT 3

TARIKH: 11 NOVEMBER 2018 (AHAD)

News



UM legal eagles (from left) Lee, Lily, Sabreena and Nur Aliya who won an international moot competition, pose with their coach Kok (right).

Awards for food microbiologist, law students

DR CHAI Lay Ching, a food microbiologist from Universiti Malaysia's (UM) Faculty of Science, has been named as one of the recipients of the L'Oréal-Unesco For Women in Science Award.

This is for her research in developing a real-time

method to detect dangerous bacteria causing foodborne diseases in raw chicken.

Several studies in Malaysia have shown that nine out of 10 raw chickens in our markets are positive for *Salmonella* or *Campylobacter jejuni* contamination.

These bacteria are the top causes of foodborne diseases globally, killing more than 150,000 people annually. Unfortunately, the conventional laboratory-based testing approaches of raw chicken are too slow and can no longer meet the demands of today's large-scale food production.

Dr Chai's work, "Using science to sniff out highly pathogenic bacteria in food, saving lives and reducing morbidities associated with these bacteria", found that

Campylobacter produces a very specific scent when grown on the agar plate, hence allowing her to correctly identify samples with *Campylobacter* from the negatives ones.

Dr Chai believes that "the L'Oréal-Unesco For Women in Science Award is definitely a great effort to promote women in science."

"To the young girls out there, dare to dream and go for it. Always set your goal high, and work hard for it," she said.

Dr Chai's proposed solution is based on the detection of specific Volatile Organic Compounds (VOCs) produced by bacteria to identify pathogenic bacteria in food. This

work is key for the future development of VOC-based biosensors or electric nose that meet the ideal high-throughput detection criteria. It can also be automated, is easy to perform and instantly detects contamination. The successful completion of this project will lead to a better understanding of bacterial metabolism and adaption in different types of substrates, which will help us understand the impact of environment on bacterial growth.

This year, L'Oréal-Unesco also launched the "Male Champions for Women in Science" initiative where male scientists are encouraged to contribute to better gender balance in science for more effective progress. The Men for Women in Science manifesto was delivered by former UM acting vice-chancellor Prof Datuk Dr Awang Bulgiba Awang Mahmud.

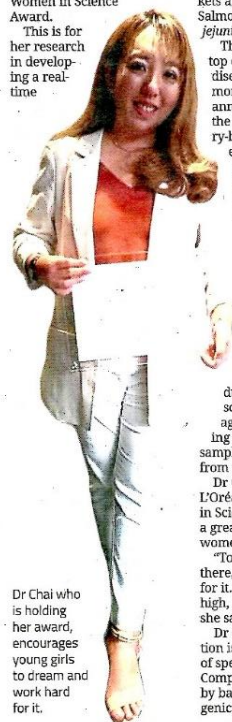
Meanwhile, UM's Law Faculty has won the 13th LAWASIA International Moot Competition 2018 held in Cambodia.

UM beat the National University of Singapore on an unanimous 5-0 decision.

UM's team comprises final year law students Lee Suan Cui and Lily Sabreena Mastura as well as second-year law student Nur Aliya Ayob. The UM team was coached by Raphael Kok Chi Ren, who is currently the moot coach for the UM Law Faculty.

Lily Sabreena was crowned the second overall best speaker at the competition.

Fourteen teams took part in the moot competition.



Dr Chai who is holding her award, encourages young girls to dream and work hard for it.

LAMPIRAN 11
THE STAR (EDUCATE): MUKA SURAT 2
TARIKH: 11 NOVEMBER 2018 (AHAD)

By **CHRISTINA CHIN**
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Promoting interest in STEM

THE next time you're worried about parking, check your app.

The Chong brothers - Emerson, 10, and Sheldon, 12, aren't old enough to drive but that didn't stop them from attempting to solve a grown up problem.

Inspired by the Internet of Things (IoT), the homeschooled brothers spent over a month working on a smart parking app that tells drivers whether parking lots at the place they're heading to, are full.

They were the Kuala Lumpur Engineering Science Fair (KLESF) International Challenge 2018 bronze medal winner in the primary school category.

The competition was divided into two categories with one for children below 12 and the other for those aged 13 to 18.

Explaining their invention, the Chongs said using RFID (radio frequency identification) tags that contain driver and vehicle information, the app can even be used to book and pay for parking bays.

KLESF steering committee co-chairman Datuk Hong Lee Pee said the fair's objective was to promote interest in science, technology, engineering and math (STEM) education among youths and the public.

The KLESF International Challenge 2018 was a main highlight as it allowed students to exhibit their original inventions.

"This year, 400 teams from 150 schools participated," said Hong.

The International Challenge was among a myriad of exciting events including exhibitions, hands-on experiments and workshops, robotics, coding, science and chemical engineering competitions.

Kayson Choo, who was among the exhibitors, showcased his team's humanoid fighter.

Using motion sensors, the humanoid punches when Choo moves his hand.



Ahmad Tajuddin (third right) sharing a light moment with Dr Siti Hamisah who was touring the KLESF exhibition.

"Now it's only the hands but we're working on a prototype that will be controlled entirely by motion sensors.

"So if you duck, step forward or move backward, the humanoid will too."

The KLESF was jointly organised by the Asean Academy of Engineering and Technology (AAET), Universiti Tunku Abdul Rahman (UTAR), Malaysian Industry-Government Group for High Technology (MIGHT) and the Institution of Engineers Malaysia.

Held from Nov 2 to Nov 4 at the MINES International Exhibition & Convention

Centre (MIECC) in Seri Kembangan, over 60,000 visitors thronged the three-day event to promote STEM.

Education Ministry's Department of Higher Education director-general Datin Paduka Dr Siti Hamisah Tapsir, who launched the fair, said STEM education was important in producing critical thinkers and innovators for our future workforce.

Innovation leads to new and improvised products and processes that sustain our economy. And such science literacy depends on solid knowledge in STEM, she added.

Last year, it was reported that only 47% of school students opted for the science stream - short of the targeted 60:40 ratio of science and technical stream students to arts students.

"We're working very hard to get students interested in STEM because the future is transdisciplinary. Everyone will need to understand and interpret data - even those in the arts field.

"The ministry's centralised university unit (UPU) has to scrape the bottom of the barrel to get STEM students. So long as they meet the minimum requirement, students are offered STEM courses," she said, adding that the ministry has conducted various initiatives including the setting up of a national STEM centre to promote hands-on activities and fun learning.

The centre's inquiry-based science education (IBSE) workshops for 1,200 teachers nation-wide was recently completed, she said.

IBSE, she said, was crucial in developing critical skills for efficient learning.



Emerson and Sheldon with a prototype of their invention.

The ministry, she added, welcomes engagement with all quarters as promoting STEM education has to be a concerted effort.

"Whether we like it or not, most of our activities are dependent on technology. Technology plays a big role in cooking, going places, studying and staying in touch with loved ones. Even when sleeping, technology keeps us cool and comfortable.

"So, a good grasp of scientific concepts is much needed, especially among the younger generation."

But the decline in STEM interest, AAET and UTAR president Prof Datuk Dr Chuah Hean Teik said, was a global phenomenon.

He said it was important that STEM careers are highlighted in the media.

"If parents know future prospects are bright, they'd encourage their children to take up these subjects."

Children naturally find STEM interesting as many toys today have scientific elements, MIGHT chairman Tan Sri Ahmad Tajuddin Ali said.

The problem is that children lose interest when they go to school.

"Is it school and our system that's the problem? We've to make sure that their interest in science continues through their schooling years."

The KLESF should strive to be as big as the Edinburgh International Science Festival. This, he said, would help generate interest among youngsters in the field.

"We must start a movement to get people interested in innovations so that we can be producers, rather than mere consumers, of technology."

KOLEJ YAYASAN UEM
 Cambridge Assessment International Education
 Cambridge International School

MALAYSIA'S PREMIER A LEVEL COLLEGE

Discover boarding with KYUEM

LAMPIRAN 12
THE STAR (EDUCATE): MUKA SURAT 2
TARIKH: 11 NOVEMBER 2018 (AHAD)

Awards for innovative projects

THE World Innovation Summit for Education has opened the submission period for the 2019 WISE Awards.

Each year, the WISE Awards recognise innovative and impactful initiatives addressing today's most urgent education challenges.

Past WISE Awards projects have tackled diverse issues in education, including access and inclusion, design and ecosystems, digital and multimedia, society and workforce, youth employment and more.

Submissions are judged according to strict criteria. They must show innovation, have a clear development plan, be financially stable, scalable and replicable. They must also demonstrate a transformative impact on individuals, communities and society.

During the course of 2019, a panel of independent judges will select 12 WISE Awards finalist projects. An independent evaluator

will conduct an on sight due diligence for the 12 finalists, and the six winning projects are then selected from this pool by a panel of judges.

The finalists and winners gain global visibility and opportunities to collaborate through various platforms, including the global Summit and WISE events across the world, WISE communications and publications. They also receive US\$20,000 (RM84,400).

Since 2009, WISE has received over 3,200 applications from more than 150 countries. To date, 60 projects from a wide variety of sectors and locations have won the WISE Awards.

The deadline for the applications and nominations for the awards is Jan 15 next year.

For more information on the awards, visit <https://www.wise-qatar.org/wise-awards>.

LAMPIRAN 13

UTUSAN MALAYSIA (KESIHATAN): MUKA SURAT 60

TARIKH: 11 NOVEMBER 2018 (AHAD)

TEKNOLOGI DUNIA DAN PERUBAHAN SISTEM PENYAMPAIAN KESIHATAN

Membicarakan topik Revolusi Industri 4.0 akan menghadirkan kita pelbagai teknologi baharu yang sedang dibangunkan di seluruh dunia. Menggenggam falsafah "The Future is Now", teknologi ini sedang dibangunkan dari sekarang untuk kegunaan masa hadapan. Sudah tentu teknologi yang berseesuaian juga sedang dibangunkan untuk sektor perubatan dan kesihatan.

Saya tidak bercadang untuk menyentuh tentang teknologi ubat-ubatan baharu seperti ubat regeneratif dan bioterapeutik, tetapi saya berhasrat untuk berkongsi tentang perubahan teknologi seperti *Augmented Reality*. *Augmented Reality* ini dikatakan akan menjadi lumrah pada tahun 2050. Malah *Augmented Reality* dalam bentuk kaca

mata diramalkan bakal menggantikan telefon pintar. Kaca mata ini dikatakan mampu menawarkan maklumat organisasi yang dipandang dengan sekali imbas, contohnya seperti mengetahui senarai doktor dan bidang-bidang kepakaran masing-masing ataupun jumlah pesakit yang sedang dirawat di sesebuah hospital/ klinik pada satu-satu masa hanya dengan memandang kepada bangunan hospital/ klinik tersebut.

Sebuah lagi syarikat di luar negara, Emotiv dilaporkan sedang meneroka teknologi "*brain-computer-interfaces*", teknologi yang membolehkan semua tindakan terjadi dengan hanya satu kerlipan mata hasil daripada pembacaan mesin ke atas gelombang otak manusia. Bayangkan kita hanya perlu memikirkan tentang hasrat untuk mendapatkan rawatan sesuatu pesakit - dengan pantas, teknologi yang ada telah menghubungkan gelombang otak kita kepada sistem hospital/tertentu.

Lebih ekstrem lagi, mungkinkah ketika itu perkataan hospital ataupun klinik telah menjadi istilah yang begitu asing untuk anak cucu, generasi kita pada masa hadapan? Perkara tersebut tidak mustahil berlaku bilamana bangunan berlabel hospital/ klinik sudah tidak lagi wujud pada tahun 2050.

Rumah kediaman akan dilengkapi dengan alat pengukur suhu, sistem pengesanan perubahan dalam organ tubuh badan manusia, mesin pengimbas kualiti udara, suhu bilik, atau tekanan udara dan pelbagai lagi teknologi kesihatan dan perubatan. Temu janji dengan doktor pula dibuat melalui *telemedicine*

Revolusi Industri

4.0

Sistem Penyampaian Perkhidmatan
Kesihatan Masa Hadapan

Oleh DR. NORFAIZAL
ABD LATIFF

MUTAKHIR ini, dunia dihadirkan dengan salah satu Megatrend yang dikenali sebagai *enabling technology*. Megatrend ini dikatakan merubah sama sekali wajah dan sempadan masyarakat kontemporari. Pancarai revolusi teknologi ini jelas dilihat pada perubahan gaya kehidupan dan gaya kerja berbanding senario sebelumnya. Malah wacana para pemimpin global dan cendekiawan

di pentas tersohor Davos World Economic Forum pada Januari 2016 telah mengistilahkan pengaruh teknologi ini sebagai Revolusi Industri 4.0 atau *The Fourth Industrial Revolution*. Revolusi tersebut menyaksikan integrasi pelbagai teknologi sehingga mencairkan sempadan fizikal, digital dan biologi/digital dalam arus kehidupan manusia. Dalam konteks ini, terlintaskah di fikiran kita bagaimana wajah sistem penyampaian perkhidmatan kesihatan pada masa hadapan?

pada skrin tv di ruang tamu, dan ubat-ubatan dihantar melalui drone terus kepada pesakit.

Mungkinkah apa yang tercatat ini semua akan menjadi kenyataan pada tahun 2050 - meniti garis masa selama 32 tahun lagi? Jika Ya... Sudah bersediakah kita?

PENJAJAAN KESIHATAN DAN PESAKIT

Perubatan - sebelum ini dikatakan terbentuk hasil gabungan sains dan seni, tetapi kini teknologi pula dikhabarkan telah merubah landskap sektor perubatan dan kesihatan. Sudah tentu dunia memerlukan teknologi perubatan yang baharu dari semasa ke semasa untuk mengatasi isu kesihatan dan mengubah pelbagai pesakit kronik disebabkan faktor usia dan kewujudan pelbagai wabak baharu. Namun,

Dengan kemajuan teknologi pada hari ini, tidak mustahil pada masa hadapan bakal wujud "doktor robot" yang dilengkapi segala maklumat pesakit...

persoalannya adakah benar teknologi yang memeta hala tuju baharu sektor ini?

Melihat kepada teknologi perubatan pada hari ini, kita diperkenalkan dengan pelbagai aplikasi pintar berkaitan penjagaan kesihatan. Semuanya hanya di hujung jari dengan satu klik sahaja! Aplikasi seperti alat mengesan langkah, degupan nadi dan jantung, aplikasi untuk merekodkan bacaan gula dalam darah dan pelbagai lagi aplikasi pintar telah dibangunkan. Semuanya atas nama kepentingan penjagaan kesihatan!

Bagaimana pula di masa hadapan? Setiap orang pasti rasa teruja untuk mengintai teknologi masa hadapan khususnya dalam bidang perubatan dan kesihatan. Namun, adakah teknologi ini hadir dengan kebaikan tanpa sebarang risiko mengiringi? Dengan kemajuan teknologi pada hari ini, tidak mustahil pada masa hadapan bakal wujud "doktor robot" yang telah dilengkapi segala maklumat pesakit dan remedi untuk merawat pesakit.

Mungkin ini merupakan cara terbaik untuk memastikan hanya pesakit yang benar-benar kritikal dan tidak dapat

dirawat oleh "doktor robot" ini sahaja akan dirujuk kepada pakar perubatan. Adakah ini yang kita inginkan dan benar-benar membantu pesakit?

Sedarkah kita bahawa *telemedicine* yang ada pada masa kini walaupun memudahkan urusan mendapatkan nasihat dan rawatan doktor di mana-mana dan pada bila-bila masa juga tidak dapat mengurangkan

kepatasan penyebaran dan penularan wabak penyakit di seluruh dunia?

KESIMPULAN

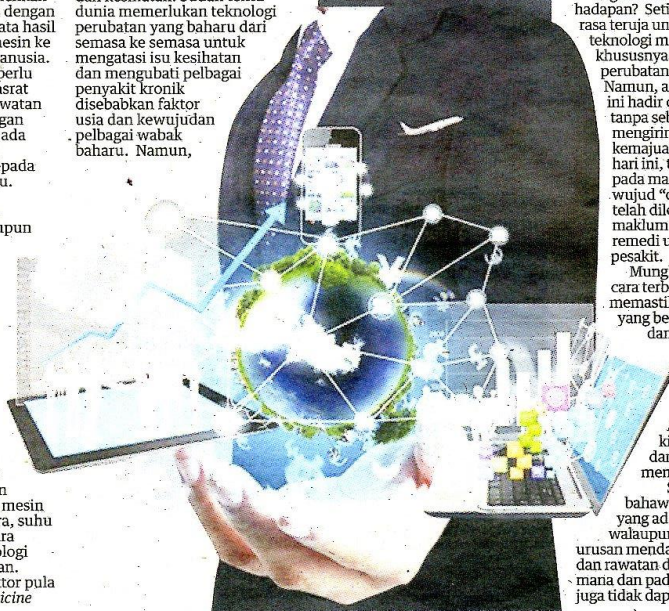
Hakikatnya, mengharungi rintangan dan mengungguli cabaran demi menterjemahkan hasrat dan aspirasi dunia dalam merealisasikan wajah baharu sistem penyampaian kesihatan pada masa hadapan tidak seindah seperti melangkah megah di atas hamparan merah permadani.

Sesungguhnya, gerak kerja untuk merubah sempadan penyampaian perkhidmatan kesihatan dan menganjak status quo lingkungan pencapaian penyampaian perkhidmatan kesihatan oleh pusat-pusat perubatan memerlukan komitmen padu seluruh warga dan petugas kesihatan. Saya berpandangan, walaupun kita sedang berlumba-lumba mengejar pembaharuan yang dipanggil reformasi ini, elemen insani haruslah tidak di ketepikan.

Walaupun berada dalam Era Revolusi Industri 4.0, sistem penyampaian perkhidmatan kesihatan tidak akan bermakna jika sekadar berlumba-lumba memfokuskan kepada penyediaan perkhidmatan berasaskan peranti dengan sokongan teknologi maklumat dan komunikasi tanpa elemen insani.

Kita perlu ingat bahawa kita berurusan dengan pesakit yang mempunyai hati dan nurani. Oleh itu, "roh dan jiwa" perlu disertakan dalam sistem penyampaian kesihatan. Jika tidak, kita akan dikatakan gagal menginsankan teknologi tetapi berjaya menukar barisan pakar perubatan, para doktor, dan petugas kesihatan menjadi jentera berautomasi tanpa kita sedari.

■ PENULIS ialah Pakar Perubatan dan Darah, Hospital Pakar KPJ Bandar Maharani, Johor



LAMPIRAN 14

NEW STRAITS TIMES (BOTS/LIVE): MUKA SURAT 44

TARIKH: 12 NOVEMBER 2018 (ISNIN)

DIGITALISATION is leading to a major change in occupations. While machines and robots are taking over many tasks, it also created more jobs with greater demand for specialists in IT and programming.

Data scientist, full stack engineer, driver-test engineer, user experience engineer and content writer are the top five emerging jobs in Malaysia, as revealed by the world's largest professional networking site LinkedIn.

For instance, since 2012, the number of data scientists has grown 1,453 per cent — from just 15 professionals to 233 in the last five years, it said.

LinkedIn's vice president of Talent and Learning Solutions for Asia-Pacific, Feon Ang, says the top three digital skills across the Asia-Pacific region are "ABC" — automation and artificial intelligence (AI), big data and cloud computing.

With demand for these talents tightening, there is a net loss of people with ABC skills in our region as more people are moving out of our region.

"Because of the demand for the ABC skills, there is a loss of talents to the US and UK. 'We can't retain them because of the more advanced tools in their countries and also companies with strong employer brand are proactively recruiting these talents,' she says.

JOB TRENDS

There are three big trends in the occupation trail today. AI and automation will continuously be coming up to be the number one role and skills that organisations are looking for.

Next is the skills gap between what organisations are looking for and the skills of our current workforce. "In LinkedIn, we have 27,000 jobs opening in Malaysia but the number of unemployment is around 69,000," she says.

One thing for sure, independent work is on the rise. She says there is a 31 per cent growth in independent work (gig economy) this year, surpassing the growth rate of traditional jobs.

"In fact, there are more than 33,000 open candidates in Malaysia who are seeking part-time, freelance or contract work, with 44 per cent of these candidates responding to job opportunities in their area within a day."

TAPPING INTO GIG ECONOMY

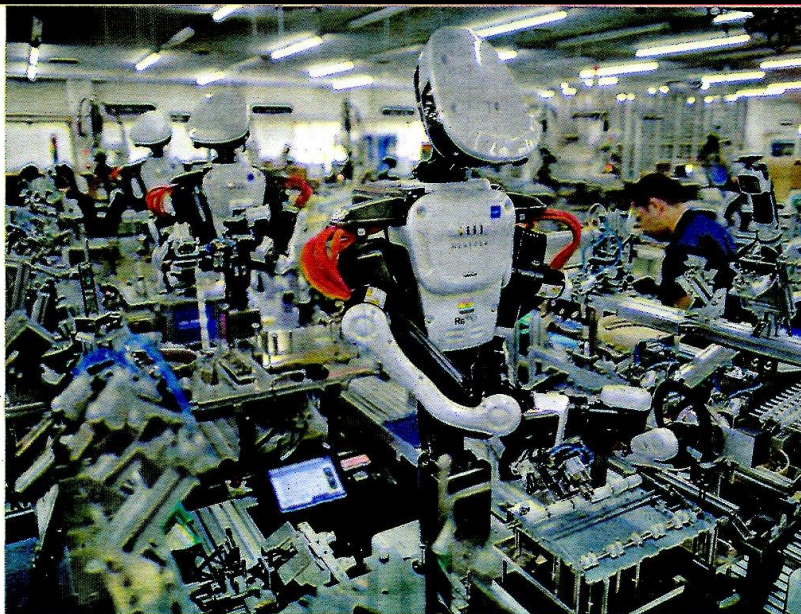
With the trend of hiring contingent workers expected to accelerate, large organisations have to quickly adapt their human capital policies to manage contingent workers.

While the demand for digitally skilled professionals continues to grow, the gap persistently widens too. In preparing the workforce to be fit for the future, Ang says both employer and employee plays a part.

To meet the business needs, employers have to continuously help talents to reskill and provide the necessary tools to help them.

"Of course, when the organisations provide the opportunities or the learning platform but if employees don't want to learn, it's also difficult. That is why having a growth mindset is important," says Ang.

She says there are times that organisations have to buy the skills needed by acquiring new talents but it should not be the first solution when there are also employees who can be reskilled or upskilled.



Humanoid robots work side by side with employees in the assembly line at a factory of Glory Ltd., a manufacturer of automatic change dispensers in Kazo, north of Tokyo, Japan.

REUTERS PHOTO

Job market driven by digital skills

Technology is changing our current work environment and companies have to prepare to face the gig economy, writes Balqis Lim

"Take, for example, a data scientist. There's actually a roadmap to help someone who is very strong mathematically and in managing big data. How do we equip them with the right programming skills so that the combination of that strong analytical and programming skill can help them be the future data scientist?"

"If we are not doing this, how can we churn out more data scientist? You can keep acquiring them but if you have existing talents that are strong in particular areas and these are also your top people that you want to keep for a long-term, why not train them instead to meet the business need?" she says.

Ang shares that in her company, there was a relationship manager with strong business acumen.

"He actually applied to be an analyst. Not having any programming skills, he had to take up a learning course in LinkedIn.

"He was later put to handle a project, which eventually landed a job as an analyst. Today, he is my Head of Insights running the whole region.

"There's nothing wrong with being a relationship manager, but his eagerness has helped him transform in his career."

MACHINE REVOLUTION

Most people are driven by fear that automation will replace their work by doing the mundane.

"But if you look at every revolution and change, farmers that were afraid the machines were going to make them jobless, interestingly new jobs also get created.

"There will be jobs replaced and new jobs created. People need to understand how they can adapt and be the change agent themselves rather than let change happen to them.

"The shelf life of skills is getting shorter and shorter with each revolution, so learning should be a part and parcel of who you are."



Feon Ang

LinkedIn strongly believe in transformation, allowing people the opportunities to transform within organisation.

"To stay relevant in this era, we encourage everyone to have learning and growth mindset which means to be open to reskilling and upskilling ourselves."

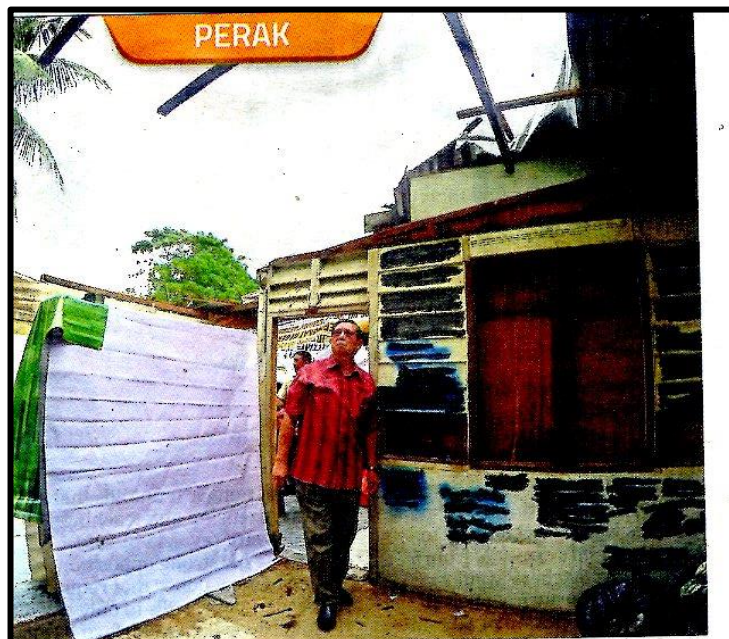
Even for startups, Ang says they should not get comfortable because things get obsolete very quickly with new emerging technology.

GETTING RIGHT TALENTS

According to Ang, a lot of organisations are beginning to look at data and insights to make a better decision.

LinkedIn Talent Insights, she says, provides companies with real-time data on talent pools and companies, the skills their organisations have today and whether they have acquired the right skills, all to shape the company better.

LAMPIRAN 15
THE STAR (NEWS): MUKA SURAT 4
TARIKH: 10 NOVEMBER 2018 (SABTU)



Mohammad Nizar visiting one of the nine houses in Kampung Rapat Jaya Tambahan that were damaged by the storm.

Thunderstorm causes panic in Ipoh village

By IVAN LOH
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HOUSEWIFE Puteri Rohaniza Supian watched in horror as the strong wind blew away the roof of her house in Kampung Rapat Jaya Tambahan during the latest thunderstorm in Ipoh.

The 35-year-old said the roof awning in the kitchen was ripped off from the ceiling at about 5pm.

The roof in one of the rooms was also blown away by the strong wind.

"It felt like a whirlwind had hit us," she said during a visit by Sungai Rapat assemblyman and state executive councillor Datuk Seri Mohammad Nizar Jamaluddin at the village.

Puteri Rohaniza panicked and ran to the front of the house to find

a safe spot to take cover.

"I stayed there and waited for the storm to end," she added.

Her home and a *surau* were badly damaged, but were part of nine houses in the village that were damaged in the thunderstorm.

Mohammad Nizar said the state government, his service centre and district office would lend assistance to the affected villagers with funds to repair the damages.

He said although the roof of the *surau* was badly damaged, there were no plans to replace the entire building.

"The cost of repairs should be between RM10,000 and RM12,000 to get zinc awnings, asbestos and wooden planks.

"We will ensure the victims get help as soon as possible," he added.

LAMPIRAN 16
THE STAR (NEWS): MUKA SURAT 4
TARIKH: 10 NOVEMBER 2018 (SABTU)

Landslip outside showroom has employees worried

By NUR SITI A'ISYAH AZIZ and
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EMPLOYEES of a home appliances showroom in Section 16, Petaling Jaya, were shocked to find a big gaping hole in the ground outside the premises.

They reported the incident to Petaling Jaya City Council (MBPJ) after retail supervisor Gee Osman and her colleagues discovered the erosion a few days ago. "Someone from MBPJ said it would take some time to fix it," said Gee.

Despite informing the council about the landslip several times, Gee said nothing had been done and their work was interrupted because the phone lines were cut off.

"Our phone line service provider was supposed to inspect the damages but they have yet to do so.

"I hope the council will take this matter seriously and fix the problem as soon as possible," she said.

A council spokesman said they would carry out emergency repair work at the site.

Petaling Jaya mayor Datuk Mohd Azizi Mohd Zain acknowledged the matter and said the council would take immediate action in emergency situations.

As of yesterday afternoon, no repair works were carried out. A yellow tape was used to cordon off the area and the landslip area was exposed, which could be prone to further damages in case of heavy rain.

The landslip is facing Jalan Dato Abu Bakar (Jalan 16/1), a congested road during peak hours. Sharon Lim who uses this road to get to work, said the exposed soil was a concern. "I hope no accidents will happen because the soil is not covered. The council and relevant parties must get their act together fast," she said.



The landslip happened outside the showroom in Section 16, Petaling Jaya.

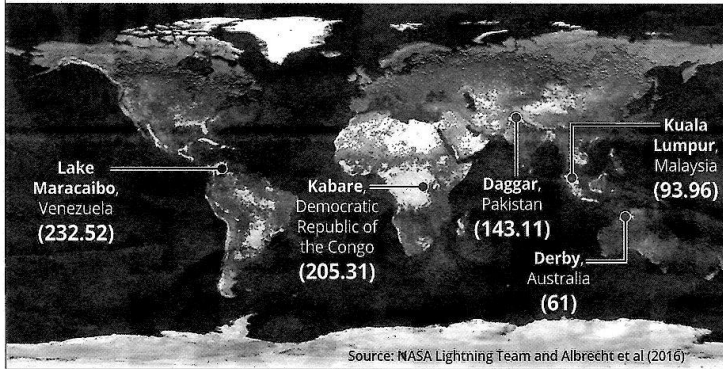
LAMPIRAN 17

THE STAR (NATION): MUKA SURAT 8

TARIKH: 10 NOVEMBER 2018 (SABTU)

Worldwide lightning activity

Measured by flash rate density (number of flashes per square kilometre per year)



Source: NASA Lightning Team and Albrecht et al (2016)

M'sians unprepared for lightning strikes

Expert: Many lack awareness and safety measures

By CLARISSA CHUNG
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PETALING JAYA: Malaysia has among the highest incidence of lightning activity in the world, but the country is woefully unprepared for these deadly strikes.

This includes Malaysians being relatively unconcerned about their personal safety during storms to buildings not having the proper protection.

Prof Mohd Zainal Abidin Kadir from the Institute of Power Engineering at Universiti Tenaga Nasional said there are about an average of 12.5 lightning-related fatalities per year in Malaysia.

There were 125 fatalities and 157 injuries due to lightning strikes from 2008 to 2017, he added.

However, lightning protection expert Hartono Zainal Abidin said that these lightning-related figures may be under-reported as they were mostly derived from

news reports.

The danger is that, out of the 365 days in a year, the Klang Valley sees an average of about 240 days of thunderstorms.

This is a stark contrast to cities such as Florida and London which only experience about 80 or 10 thunderstorm days respectively a year, he said.

Hartono added that Malaysian "hotspots" for lightning activity include the Kuala Lumpur International Airport (KLIA), large cities such as Subang Jaya and Johor Baru, and the state of Penang.

A study in 2016 that compiled data from 16 years of observation reported that Kuala Lumpur "stood out as the place with the highest lightning occurrence" in Asia.

According to the study which involves different universities across the globe and led by meteorologist Dr Rachel Albrecht of the University of Sao Paulo, Malaysia takes three places in the top 10 spots

with the highest flash rate density (FRD) in Asia.

Paka in Terengganu recorded an FRD of 97.02 and Kota Tinggi has an FRD of 95.92.

FRD measures lightning activity by recording the number of flashes per square kilometre per year.

Despite the high lightning activity in Malaysia, experts said that the country is still lacking in its preparedness.

Hartono said there should be a lightning rod installed at every corner of a cuboid-shaped building at the very least, but this was usually not the case.

"Most buildings have only one lightning rod, called the Early Streamer Emission (ESE) conductor, placed at the centre of the building," he said.

"Sirim Bhd rejected this lightning rod in 2000, but a lot of buildings still use it," he said, referring to the industrial standards body.

Hartono added that four stand-

Staying safe during thunderstorms



Source: Malaysian Meteorological Department

©The Star Graphics

ard lightning rods (known as Franklin rods) should be installed at each corner of a rectangle-shaped building.

This would only cost about RM10,000 in total, he said, while ESE conductors cost about RM20,000 to RM50,000, depending on the model.

Although the thunderstorm season will be ending in November, Hartono urged the public to remain vigilant.

He said the most intense period for thunderstorms are from March to May, and from September to November.

Meanwhile, Prof Mohd Zainal said knowledge about severe weather such as lightning strikes was low across different socio-demographic groups.

According to a study he conducted in 2014, 36.4% of the population

was not prepared for severe weather, 43.4% of them were partly prepared, and only 20.2% of them were fully prepared.

Urbanites have better access to medical help and information on how to face severe weather.

"Urban dwellers are generally better educated, making it easier for them to understand information pertaining to hazards."

"The rural population may lack access to high quality medical facilities and digital media with forecasting and thunderstorm warnings, and also do not have enough lightning-protected homes and buildings," he said.

Prof Mohd Zainal added that those from rural areas may also often have to travel long distances from one area to another, which puts them at risk of hazardous weather.

LAMPIRAN 18
KOSMO! (DUNIA): MUKA SURAT 48
TARIKH: 12 NOVEMBER 2018 (ISNIN)

'Angin Syaitan' burukkan kebakaran di California

CALIFORNIA, Amerika Syarikat - Bayu panas dan kering diberi jolokan 'Angin Syaitan' bertiup ke kawasan kebakaran hutan di California Selatan semalam, mengakibatkan api yang meragut sekurang-kurangnya 25 nyawa menjadi semakin marak, kata beberapa pegawai.

"Ia semakin buruk. Kami menerima angin kuat berkelajuan hingga 112 kilometer sejam," kata ahli meteorologi tempatan, Marc Chenard awal semalam berhubung bayu Santa Ana itu yang digelar 'Angin Syaitan'. Angin itu melanda kawasan di Los Angeles di mana kebakaran dikenali sebagai Woolsey Fire marak di Daerah Ventura dan meragut sekurang-kurangnya dua nyawa sejak Khamis lalu.

Angin tambahan selaju 64 kilometer sejam juga diramal bertiup ke kaki bukit Sierra Nevada, California Utara dekat Sacramento di mana kebakaran yang diberi nama *Camp Fire* meragut sekurang-kurangnya 23 nyawa.

Kebakaran *Camp Fire*



ANGGOTA polis menemui mayat rentung di sebuah kawasan yang terjejas akibat kebakaran *Camp Fire* dekat bandar Paradise, California kelmarin. AFP

memusnahkan lebih 6,700 kediaman dan premis perniagaan di bandar Paradise sekali gus kemusnahan lebih banyak struktur berbanding kebakaran hutan lain.

Angka kematian, yang mungkin meningkat, juga menjadikan *Camp Fire* antara kebakaran hutan paling berdarah dalam sejarah California.

Hanya kebakaran hutan yang digelar *Griffith Fire* pada tahun 1933 dan *Tunnel Fire* dalam tahun 1991 meragut lebih banyak nyawa.
- Reuters

LAMPIRAN 19
UTUSAN MALAYSIA (LUAR NEGARA): MUKA SURAT 70
TARIKH: 11 NOVEMBER 2018 (AHAD)

BANJIR di Madaba di selatan Amman, Jordan menghanyutkan kenderaan dan merosakkan jalan raya. - AGENSI



12 maut banjir kilat di Jordan

■ AMMAN 10 NOV.

SERAMAI 12 orang maut manakala lima lagi masih hilang dalam bencana banjir kilat di negara itu semalam.

Cuaca buruk tersebut turut menyaksikan lebih 3,700 pelancong asing terpaksa dipindahkan oleh pihak berkuasa tempatan dari bandar Petra, sebuah kawasan pelancongan yang terkenal.

Banjir di bandar Petra dan beberapa kawasan berdekatan gu-

run Wadi Mussa menyaksikan airnya meningkat antara tiga hingga empat meter dan membanjiri jalan utama.

"Hujan lebat di wilayah Daaba, selatan Amman menyebabkan penutupan lebuh raya gurun (menghala ke arah selatan Jordan) di kedua-dua arah selepas kawasan itu ditenggelami air," kata jurucakap wanita kerajaan, Jumana Ghneimat.

Ujar Ghneimat, dua wanita dan seorang kanak-kanak meru-

pakan antara mangsa yang maut.

Dalam pada itu, menurut sumber pertahanan awam, seorang lagi kanak-kanak maut di kawasan Madaba, juga di selatan Amman, selepas kereta dinaikinya terperangkap dalam banjir.

"Pasukan penyelamat masih berusaha mencari lima lagi mangsa yang masih hilang di kawasan berkenaan," ujar sumber itu.

Lapor stesen televisyen tempatan, tentera Jordan telah mengerahkan helikopter

dan kenderaan berperisai untuk membantu misi pencarian mangsa serta menolong penduduk tempatan yang terjejas akibat banjir.

Sementara itu, Kementerian Pendidikan Jordan mengarahkan agar sekolah ditutup di seluruh negara hari ini.

Ghneimat turut menggesa penduduk tempatan di kawasan terjejas dan rendah untuk meninggalkan kediaman mereka selepas hujan lebat diramal terus berlaku pada hari ini. - AFP

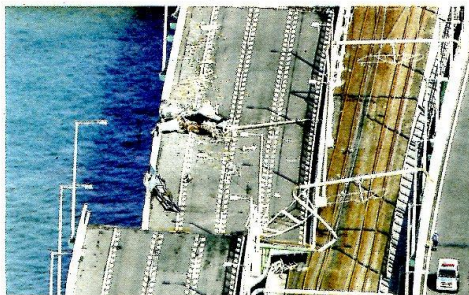
LAMPIRAN 20
UTUSAN MALAYSIA (RENCANA): MUKA SURAT 24
TARIKH: 10 NOVEMBER 2018 (SABTU)



BERGELORA air sungai di Bandaraya Nishinomiya, Hyogo menghanyutkan bot-bot kecil akibat taufan Jebi. - REUTERS/KYODO



PEMANDANGAN dari udara menunjukkan landasan di Lapangan Terbang Antarabangsa Osaka yang dilimpahi air mengakibatkan semua penerbangan di sana dibatalkan. - REUTERS



SEBUAH jambatan menghubungkan Lapangan Terbang K nsai dengan bandaraya Osaka rosak selepas di langgar kapal tangki minyak yang hanyut dipukul ombak akibat taufan Jebi. - REUTERS/KYODO

Oleh MOHAMAD ATHIR ISMAIL
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Kemudahan asas seperti bekalan elektrik terputus serta perkhidmatan pengangkutan awam termasuk penerbangan terpaksa dibatalkan sekali gus mencetuskan panik kepada pelancong.

PERCUTIAN di negara matahari terbit sepatutnya berakhir dengan penuh keseronokan. Namun, siapa sangka pada hari terakhir berada di negara itu, lima sahabat terperangkap dalam taufan yang cukup kencang. Ketika kejadian, kesemua mereka berada di sebuah inap desa di Nishinari-ku, Osaka. Mereka sibuk mengemas memandangkan keesokan harinya, mereka akan pulang ke tanah air.

Nur Fatin Syuhada Tamsi, Hawa Jumitstrowijoyo, Nur Farah Diyana Sabarudin, Zati Iwani Abdul Malek dan Azizul Halim Ismail tidak menyangka percutian hari terakhir di Jepun

cukup cemas apabila mereka terperangkap dalam bencana Taufan Jebi.

Kekuatan angin sehingga 216 kilometer sejam itu mencetuskan kerisauan yang teramat sangat kepada lima sahabat terbabit. Apatah lagi, taufan itu dicatatkan sebagai taufan terburuk melanda Jepun dalam tempoh 25 tahun.

PENGALAMAN

Dalam malapetaka itu, enam orang maut dan lebih 90 orang cedera, selain ribuan rumah dan kenderaan musnah.

Kemudahan asas seperti bekalan elektrik terputus serta perkhidmatan pengangkutan awam termasuk penerbangan terpaksa dibatalkan, sekali gus mencetuskan panik kepada pelancong. Kalau boleh, setiap pelancong mahu cepat keluar

dari kawasan malapetaka, tetapi apa kan daya, penerbangan yang dijadualkan keesokan harinya turut terkena tempas Taufan Jebi.

Nur Fatin Syuhada Tamsi, 29, yang mesra disapa sebagai Fatin, berkata, dia bersama empat rakannya tiba di Jepun pada 30 Ogos 2018 untuk bercuti. Dalam percutian itu, beberapa perancangan telah disusun rapi termasuk mendaki Gunung Fuji di Tokyo dan ‘makan angin’ di Osaka.

Mengenang malapetaka itu, Fatin memberitahu S2, pada hari terakhir mereka dijadualkan pulang ke Kuala Lumpur, mereka terperangkap dalam bencana Taufan Jebi.

Katanya, detik dibadai taufan itu tidak akan dilupakan sepanjang hayatnya.

“Ia satu pengalaman yang cukup menakutkan. Lantai

di *homestay* yang kami sewa bergegar. Malah, tingkap di tingkat atas rumah tercabut. Bumbung pula macam nak terbang. Saat itu, kami duduk rapat-rapat, takut yang teramat sangat.

“Mulanya, kami sangka cuma ribut biasa. Sebelum itu, jiran-jiran sudah menasihatkan kami supaya menutup tingkap dan pintu rapat-rapat.

“Syukur, taufan itu hanya sekejap... bermula dari tengah hari dan berakhir sekitar pukul 3 petang,” katanya yang masih tidak dapat melupakan kekuatan angin yang teramat kuat dan kencang.

Tambah Fatin, bunyi taufan yang kedengaran mencetuskan satu perasaan yang sukar digambarkan dengan kata-kata. “Deruan angin kencang yang menbinasakan itu membuatkan kami berdebar-debar....

