

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

Bil	Berita	Media	Capaian Berita Penuh
	18 SEPTEMBER 2018 (SE	ELASA)	
	Dr Mahathir to deliver special address at Cepsi 2018		
1.	The opening ceremony will be held earlier in the day and will be opened by Energy, Technology, Science, Climate Change and Environment Minister Yeo Bee Yin.	The Sun Daily	Klik pada tajuk berita
	CEPSI 2018 buka tirai		
2.	CEPSI 2018 akan dirasmikan oleh Menteri Tenaga, Sains, Teknologi, Alam Sekitar & Perubahan Iklim, Yeo Bee Yin pada 9 pagi, 18 September 2018, sementara Perdana Menteri, Tun Dr. Mahathir Mohamad pula dijadual menyampaikan ucaptama khas pada jam 3 petang hari sama.	Utusan Malaysia	Rujuk lampiran 1 atau klik pada tajuk berita
	More than 2,000 delegates to attend TNB event		
3.	TNB president and CEO and president of AESIEAP 2017/2018, Datuk Seri Ir Azman Mohd will deliver his welcome address ahead of the keynote address by Energy, Science, Technology, Environment and Climate Change Minister Yeo Bee Yin.	The Star	Rujuk lampiran 2
	17 SEPTEMBER 2018 (I	SNIN)	
	Largest ever power industry conference in Malaysia starts tomorrow		
4.	Highlights of the first day include a special address from Prime Minister Tun Dr Mahathir Mohamad in the afternoon. Minister of Energy, Science, Technology, Environment and Climate	The Sun Daily	Klik pada tajuk berita

	Change Yeo Bee Yin will deliver the welcome address.		
5.	Townhall session for public to air concerns about PIL 1 "I am not required to be at the session, but will attend, anyway. Energy, Technology, Science, Climate Change and Environment Minister Yeo Bee Yin too might also be there," said Chow when asked if he would be present at the forum.	The Star	Klik pada tajuk berita
6.	Penang NGO cries attempted sabotage for talk on RM8b highway project The petition, titled "CANCEL PIL1 HIGHWAY #SOS# Keep Penang beautiful without pollution & environmental impact", is addressed to Penang Chief Minister Chow Kon Yeow, Energy, Technology, Science, Climate Change and Environment Minister Yeo Bee Yin and Prime Minister Tun Dr Mahathir Mohamad.	Malay Mail	Klik pada tajuk berita
7.	2,000 delegasi dijangka hadir di CEPSI 2018 Presiden AESIEP 2017/2018 dan Presiden/Ketua Pegawai Eksekutif TNB, Datuk Seri Ir Azman Mohd, akan menyampaikan ucapan aluan sebelum Menteri Tenaga, Teknologi, Sains, Perubahan Iklim dan Alam Sekitar, Yeo Bee Yin menyampaikan ucaptama pada pembukaan persidangan dan mengumumkan pembukaan pameran kemudiannya.	Berita Harian	Rujuk lampiran 3 atau klik pada tajuk berita
8.	Dr Mahathir akan sampaikan ucapan khas pada Cepsi 2018 "Presiden/Ketua Pegawai Eksekutif TNB Datuk Seri Ir Azman Mohd akan menyampaikan ucapan alu-aluan pada pagi Selasa sebelum Menteri Tenaga, Teknologi, Sains, Perubahan Iklim dan Alam Sekitar Yeo Bee Yin menymapaikan ucaptama pada perasmian persidangan itu," kata TNB dalam kenyataan hari ini.	Sinar Harian	Klik pada tajuk berita

9.	Dr Mahathir to deliver special address at CEPSI 2018 The opening ceremony will be held earlier in the day and will be opened by Energy, Technology, Science, Climate Change and Environment Minister Yeo Bee Yin.	New Straits Times	Klik pada tajuk berita
10.	Report: Budget restructuring leaves several ministries in the lurch Local daily Berita Harian reported that the affected ministries were the Health Ministry, the Tourism, Arts and Culture Ministry, and the Energy, Technology, Science, Climate Change and Environment Ministry.	Malay Mail	Klik pada tajuk berita
11.	Let's stop demonisation of palm oil I am for former environmental activist Wong Tack's suggestion to set up a tri-ministerial advisory council involving the Primary Industries Ministry, Water, Land and Natural Resources Ministry, and Energy, Green Technology, Science, Climate Change and Environment Ministry.	New Straits Times	Klik pada tajuk berita
12.	Don't sideline Sabah in nation's development: Syed Saddiq Syed Saddiq later met with Deputy Home Minister cum Warisan Youth chief Azis Jamman; and Energy, Green Technology, Science and Climate Change Deputy Minister cum Warisan Wirawati chief Isnaraissah Munirah Majilis.	New Straits Times	Klik pada tajuk berita
13.	Pengurusan tenaga lestari EMGS Berdasarkan laporan Suruhanjaya Tenaga (ST) terkini, sejumlah 1,942 pepasangan elektrik dengan kadar penggunaan elektrik bersamaan 22,831 GWh setahun telah tertakluk di bawah Peraturan-Peraturan Pengurusan Tenaga Elektrik Dengan Cekap 2008.	Sinar Harian	Rujuk lampiran 4 atau klik pada tajuk berita

	16 SEPTEMBER 2018 (AHAD)				
14.	Enhancing efficiency in the electricity industry Recently the Minister of Energy, Technology, Science, Climate Change and Environment Yeo Bee Yin called for a reform of the Malaysian electricity industry to achieve cheaper and cleaner energy production.	The Edge Market	Klik pada tajuk berita		
15.	Perak goes ahead with plastic-free days Representatives from the Energy, Science, Technology, Environment and Climate Change Ministry and environment excos from all states could sit in the council, he said.	The Star	Rujuk lampiran 5 atau klik pada tajuk berita		
16.	Learn to communicate, YBs! I hope this is not true. New YBs must be alert to the possibility of such scams by opportunists. Unless you yourself are an opportunist, YB! God forbid!	New Straits Times	Rujuk lampiran 6 atau klik pada tajuk berita		

TEMPATAN

Bil	Berita	Media	Capaian Berita Penuh	
	18 SEPTEMBER 2018 (SELASA)			
17.	TNB perkasa pendidikan negara Buat permulaan, biasiswa My Brighter Future ini diberikan kepada 1,000 pelajar yang berjaya melanjutkan pelajaran ke peringkat ijazah pertama dalam bidang Sains, Teknologi, Kejuruteraan dan Matematik (STEM).	Utusan Malaysia	Rujuk lampiran 7 atau klik pada tajuk berita	

	17 SEPTEMBER 2018 (ISNIN)			
	Robots rule at fifth science fest			
18.	Artificial Intelligence (AI) and humanoid robots took centre stage at the Petrosains Science Festival 2018, which ended yesterday.	The Star	Rujuk lampiran 8	
	Could TNB be Malaysia's next fibre broadband provider?			
19.	Tenaga Nasional Berhad (TNB) the country's electricity provider, is looking to get in on the broadband services provision market.	Malay Mail	Rujuk lampiran 9	
	16 SEPTEMBER 2018 (A	HAD)		
	Changing educative process			
20.	However, our education system emphasises computational thinking over others, focusing on STEM subjects (Science, Technology, Engineering and Mathematics). It, nevertheless, accedes due credence to conceptual and verbal thinking.	New Straits Times	Rujuk lampiran 10 atau klik pada tajuk berita	
	15 SEPTEMBER 2018 (SA	ABTU)		
	Gold Innovation	New Straits	Rujuk lampiran	
21.	Chok won two gold medals for his hybrid bamboo sheet with nano carbon tube project.	Times	11	
	BMW taja kereta hibrid 5 Series untuk CEPSI			
22.	2018 Menurutnya, kerjasama berkenaan bertepatan pada masanya sejajar dengan perkembangan revolusi kenderaan elektrik dalam pengangkutan di serata dunia.	Sinar Harian	Rujuk lampiran 12	
	Petrosains festival back to thrill smart minds			
23.	It is among the science centre's key initiatives to inspire the lear-ning of science through a platform that it engaging, educational, impactful and enjoyable, said its chief executive officer Tengku Nasariah Tengku Syed Ibrahim.	The Star	Rujuk lampiran 13 atau klik pada tajuk berita	

ANTARABANGSA

Bil	Berita	Media	Capaian Berita Penuh	
	18 SEPTEMBER 2018 (SEI	LASA)		
24.	Michigan and China to team up on car technology as more trade war tariffs loom The US state of Michigan and China's science ministry are planning to team up on car technology in a deal signed in Beijing on Monday, despite the threat of more trade tariffs from Washington.	South China Morning Post	Klik pada tajuk berita	
25.	Mangkhut's trail of destruction After tearing through Luzon and pummelling Hong Kong and Macau, the storm made landfall in mainland China late on Sunday, with two reported dead in Guangdong province.	The Star	Rujuk lampiran 14 atau klik pada tajuk berita	
26.	More destruction lies ahead Catastrophic floods raised the threat of landslides and dam failures across the southeastern United States on Monday, prolonging the agony caused by a killer hurricane that has left more than a dozen people dead and caused billions of dollars in damage.	The Star	Rujuk lampiran 15	
27.	Machines to do more by 2025 Robots will handle 52 per cent of current work tasks by 2025, almost twice as many as now, a World Economic Forum (WEF) study said.	The Star	Rujuk lampiran 16	
	17 SEPTEMBER 2018 (ISNIN)			
28.	Kenyans build plastic boat to highlight pollution Kenyan islanders have built a boat made entirely of recycled plastic collected during clean-ups of the ocean to highlight the growing menace of plastic waste that ends up in the sea.	The Star	Rujuk lampiran 17	

29.	New technology could replace 28 million jobs in region Innovations in artificial intelligence (AI) technology, coupled with its increased adoption, will have a big impact on the workforce across ASEAN over the next decade, according to a new study by Cisco and Oxford Economics.	The Star	Rujuk lampiran 18
30.	"Definitely less anxiety than messing it up with a real human being," says Rahul Divekar, a computer science graduate student working on the project. "So compared to that anxiety, this is a lot more easy."	The Star	Rujuk lampiran 19 atau klik pada tajuk berita
31.	Moon seeks to break nuclear deadlock at summit South Korean President Moon Jae-in travels to Pyongyang this week for his third summit with Kim Jong Un, looking to break the deadlock in nuclear talks between North Korea and the United States.	Malay Mail	Rujuk lampiran 20
32.	Climate change is making hurricanes way more intense A warmer world makes for nastier hurricanes. Scientists say they are wetter, possess more energy and intensify faster.	The New York Post	Klik pada tajuk berita
33.	Yes, You Can Blame Bad Storms on Climate Change Studies of the European heatwaves that have become an almost annual occurrence in recent years have shown that they were several times more likely to happen as a result of climate change, for instance.	Bloomberg	Klik pada tajuk berita
34.	Science prizes put technological innovation at the heart of China's progress A chemist from mainland China has won a major Hong Kong science prize for his leading global research in the field of bio-inspired nanomaterials, highlighting China's pledge to become an innovation hub in its own right.	South China Morning Post	Klik pada tajuk berita

35.	Without A Simple Fix For Plastic Waste, Bold Leadership Is Needed The world's plastic addiction is a complex and increasingly problematic issue. The question for policymakers, business leaders and consumers now is what to do about it.	Forbes	Klik pada tajuk berita	
	16 SEPTEMBER 2018 (AI	HAD)		
	For a greener tomorrow One of the higgest problems that the world is			
36.	One of the biggest problems that the world is struggling with today is environmental degradation, which is increasing relentlessly with every passing year and is a source of mammoth damage to planet earth.	The Hindu	Klik pada tajuk berita	
	Don't Trust Artificial Intelligence? Time To Open The Al 'Black Box'			
37.	When Watson's results agreed with physicians, it provided confirmation, but didn't help reach a diagnosis. When Watson didn't agree, then physicians simply thought it was wrong.	Forbes	Klik pada tajuk berita	
	NASA counts down to launch of laser study of ice sheets			
38.	The mission will inform sea level rise forecasts and is "exceptionally important for science," according to Richard Slonaker, ICESat-2 program executive at NASA.	New Straits Times	Rujuk lampiran 21	
15 SEPTEMBER 2018 (SABTU)				
	Sistem automasi punca semakin ramai			
39.	menganggur Selain itu, kebanyakan negara juga bersetuju manusia akan berdepan kesukaran mencari peluang pekerjaan dan masalah itu semakin buruk ekoran teknologi automasi serta kepintaran buatan (AI).	Utusan Malaysia	Rujuk lampiran 22	

		T	
	SpaceX rancang hantar pelancong ke bulan		
40.	Syarikat aeroangkasa Amerika Syarikat (AS), SpaceX mengumumkan rancangan untuk menghantar pelancong mengelilingi Big Falcon Rocket (BFR), sebuah kenderaan yang direka untuk membawa manusia ke angkasa lepas.	Utusan Malaysia	Rujuk lampiran 23
	Plan for biofuel-powered commercial flights		
	slowly taking off		
41.	But several major carriers are planning larger- scale usage of biofuel in the next two years, including JetBlue Airways Corp and Cathay Pacific Airways Ltd.	New Straits Times	Rujuk lampiran 24
	5.2 juta penduduk berdepan ribut kuat		
42.	Lebih ramai penduduk di zon bahaya dipindahkan pihak berkuasa Filipina, semalam dan ketika sama memberi amaran 5.2 juta penduduk yang berada pada laluan 'taufan amat pemusnah' agar kekal di dalam rumah.	Berita Harian	Rujuk lampiran 25
	Countries ramp up climate goals		
43.	Zero fossil fuel energy, zero gas guzzlers on the road, zero waste, zero CO2 emissions – dozens of cities, regions and companies made "zero" pledges at a global climate summit in San Francisco.	The Star	Rujuk lampiran 26

LAMPIRAN 1 UTUSAN MALAYSIA (BISNES): MUKA SURAT 45 TARIKH: 18 SEPTEMBER 2018 (SELASA)

CEPSI 2018 buka tirai

Oleh AKMYR SYAHAR AZWAR

dijemput

Persida-

pengarang@utusan.com.my

■ KUALA LUMPUR 17 SEPT.

RANG ramai menghadiri ngan Industri Bekalan Tenaga Elektrik (CEPSI) kali ke-22 anjuran Tenaga Nasional Bhd. (TNB) yang membuka tirai hari ini sehingga 22 September di Pusat Konvensyen Kuala Lumpur.

Menurut TNB, penganjuran CEP-

SI 2018 bagi pihak Persatuan Industri Bekalan Elektrik Asia Timur dan Pasifik Barat (AESIEAP) itu menjadi persidangan utiliti tenaga terbesar pernah diadakan di negara ini.

"Bertemakan 'Membayangkan semula Utiliti Masa Hadapan', persidangan ini menumpukan kepada senario semasa bagaimana industri pembekalan elektrik mengalami transformasi ekoran kemunculan dan penggabungan akibat gangguan teknologi, perubahan ekonomi, keperluan kemapanan dan peraturan yang berubah pesat, serta pertambahan jangkaan pelanggan.

"Ia juga akan menangani

topik-topik seperti megatrend, kelestarian, trilemma tenaga, pendigitalisasi dan masa hadapan lebih pintar," jelas TNB dalam kenyataan di sini baru-baru ini.

CEPSI 2018 akan dirasmikan oleh Menteri Tenaga,

Sains, Teknologi, Alam Sekitar & Perubahan Iklim, Yeo Bee Yin pada 9 pagi, 18 September 2018, sementara Perdana Menteri, Tun Dr. Mahathir Mohamad pula dijadual menyampaikan ucaptama khas pada jam 3 petang hari sama.

CEPSI yang dianjurkan secara tahunan itu dihoskan oleh negara-negara di sekitar rantau Asia Timur dan Pasifik Barat. Kali terakhir TNB menganjurkan CEPSI ialah pada 1996.

TNB berkata, CEPSI 2018 menampilkan penceramah terkemuka termasuk empat pakar antarabangsa yang akan berkongsi idea dengan para peserta.

"Empat penceramah itu ialah Pengarah Urusan Global Tenaga, Persekitaran dan Utiliti Industri IBM, Brad Gammons; Pengurus Serantau Pembangunan Perniagaan Tesla Energy Asia Pasific, Lara Olsen; Naib Presiden Kanan Kumpulan Bahagian Grid Kuasa Asia Selatan, Asia Barat dan Afrika ABB Group, Venu Nuguri serta Rakan Kanan McKinsey & Company, Dr. Jonathan Woetzel.

"Mereka bersama ahli panel terkenal lain akan berkongsi trend terkini, amalan terbaik dan cabaran yang dihadapi dalam setiap bidang yang diceburi," jelas syarikat itu.

TNB turut menjangkakan seramai lebih 1,500 delegasi yang terdiri daripada pemimpin, eksekutif kanan, pegawai kerajaan dan profesional dari seluruh dunia akan mengambil bahagian dalam persidangan kali ini.



LAMPIRAN 2 THE STAR (NEWS): MUKA SURAT 4 TARIKH: 18 SEPTEMBER 2018 (SELASA)

More than 2,000 delegates to attend TNB event

PETALING JAYA: Tenaga Nasional Bhd (TNB) will be hosting the Conference of Electric Power Supply Industry 2018 (CEPSI 2018), the largest energy and electricity supply industry conference ever to be organised in the country.

Prime Minister Tun Dr Mahathir Mohamad, who was the guest of honour when Malaysia last hosted CEPSI in 1996, will deliver a spe-

cial address during the event.

TNB, in a statement, said it expected more than 2,000 delegates to attend the three-day conference, which would be held at the KL Convention Centre here from today.

In addition, it said, some 4,500 visitors are anticipated to visit the various booths by over 100 exhibitors. Themed "Reimagining Utility of the Future", the conference will be hosted

by TNB on behalf of the Association of the Electricity Supply Industry of East Asia and the Western Pacific (AESIEAP).

The conference will bring together major industry leaders from all over the world to discuss important industry issues such challenges, strategies, sustainability, technologies and the future related to energy.

CEPSI is held once every two years for energy players in east Asia and the western Pacific. Since its inception in 1976 in Hong Kong, CEPSI is a key international meeting point for power industry companies, utility leaders, industry professionals and experts from all over the world.

TNB president and CEO and president of AESIEAP 2017/2018, Datuk Seri Ir Azman Mohd will deliver his welcome address ahead

of the keynote address by Energy, Science, Technology, Environment and Climate Change Minister Yeo Bee Yin.

Seventeen thought leaders will speak on energy issues as well as discuss best practices on crucial issues like global trends and shifts, future utility, sustainability, innovation, digitalisation, megatrends, as well as a smarter future for the electricity supply industry.

Among the experts are McKinsey & Co senior partner Jonathan Woetzel, Siemens Malaysia president and CEO Indranil Lahiri, Tesla energy head of business development and growth Lara Olsen, IBM energy, environment and utility industry global MD Brad Gammons, Sarawak Energy Bhd group CEO Sharbini Suhaili, and Institute of Energy Economics, Japan chief economist and MD Dr Ken Koyama.

LAMPIRAN 3 BERITA HARIAN (BISNES): MUKA SURAT 24 TARIKH: 18 SEPTEMBER 2018 (SELASA)

2,000 delegasi dijangka hadir CEPSI 2018

Hampir 2,000 delegasi dijangka menghadiri Persidangan Industri Bekalan Tenaga Elektrik 2018 (CEPSI 2018), persidangan industri bekalan tenaga dan elektrik terbesar dianjurkan di Malaysia bermula hari ini hingga Khamis.

Di samping itu, kira-kira 4,500 pelawat dijangka mengunjungi pelbagai gerai yang disediakan oleh lebih 100 pempamer di pameran khusus yang diadakan sempena CEPSI 2018 bertempat di Pusat Konvensyen KL.

Dengan tema Reimagining Utility of the Future, persidangan itu dihoskan Tenaga Nasional Bhd (TNB) bagi pihak Persatuan Industri Bekalan Elektrik Asia Timur dan Pasifik Barat (AESIEAP).

CEPSI 2018 mengumpulkan pemimpin utama industri dari seluruh dunia untuk melihat beberapa isu penting industri seperti cabaran, strategi, kemampanan, teknologi dan masa depan yang berkaitan dengan tenaga.

CEPSI dihoskan sekali setiap dua tahun adalah untuk peserta tenaga di Asia Timur dan Pasifik Barat membincangkan isu tenaga.

Bertukar idea

Sejak penubuhannya pada 1976 di Hong Kong, CEPSI berkembang sebagai titik pertemuan utama antarabangsa untuk syarikat industri tenaga, pemimpin utiliti, profesional industri dan pakar dari seluruh dunia untuk bertukar + idea dan belajar dari satu sama lain.

Acara tahun ini akan menjadi persidangan utiliti tenaga terbesar bagi Malaysia kerana CEPSI sering dianggap sebagai acara wajib untuk ketua pegawai eksekutif (CEO), eksekutif kanan, jurutera, pegawai kerajaan dan pakar dalam sektor elektrik dan tenaga.

Perdana Menteri, Tun Dr Mahathir Mohamad, menjadi tetamu kehormat apabila Malaysia/TNB sebagai tuan rumah CEPSI pada 1996, akan menyampaikan ucapan khas pada edisi tahunan ke-22 CEPSI.

LAMPIRAN 4 SINAR HARIAN (CETUSAN): MUKA SURAT 43 TARIKH: 17 SEPTEMBER 2018 (ISNIN)

Pengurusan tenaga lestari EMGS



enggunaan tenaga dan bil elektrik yang tinggi merupakan salah satu isu yang membebankan bagi setiap organisasi dan industri khususnya. Peningkatan kos operasi ini akan menjejaskan kadar keuntungan serta daya saing industri berkenaan.

Sehubungan itu, pengurusan tenaga yang baik dan lestari adalah penting kepada organisasi dan pihak industri untuk menjadi lebih kompetitif dan efisyen.

Berdasarkan laporan Suruhanjaya Tenaga (ST) terkini, sejumlah 1,942 pepasangan elektrik dengan kadar penggunaan elektrik bersamaan 22,831 GWh setahun telah tertakluk di bawah Peraturan-Peraturan Pengurusan Tenaga Elektrik Dengan Cekap 2008.

Selaras dengan usaha untuk meningkatkan kecekapan penggunaan tenaga, ST telah memberi fokus kepada aktiviti meningkatkan kesedaran dan pemantauan dengan lebih meluas dan terperinci. Ini adalah sejajar dengan matlamat imengurangkan intensiti tenaga elektrik, iaitu kadar penggunaan tenaga elektrik bagi menghasilkan satu unit Keluaran Dalam Negara Kasar (KDNK). Selain itu, penekanan juga telah diberikan kepada inisiatif menginstitusikan sistem pengurusan tenaga dalam kalangan pihak industri yang menggunakan tenaga secara intensif. (Sumber: Suruhanjaya Tenaga)

Sistem pengurusan tenaga lestari ini juga boleh memberi impak kepada pengurangan pembebasan gas rumah kaca, kos tenaga dan impak alam sekitar yang lain. Secara tidak langsung, ia juga dapat memingkatkan keyakinan pelanggan, pembekal dan pihak berkepentingan terhadap tanggungjawab ke atas alam sekitar.

Di peringkat antarabangsa, Malaysia juga telah bersetuju dan memberi komitmen penuh dengan meletakkan sasaran untuk mengurangkan sebanyak 45 peratus kadar interisiti pelepasan gas rumah kaca berbanding keluaran dalam negara kasar (KDNK) pada tahun 2030 berbanding tahun asas iaitu 2005 semasa Persidangan Perubahan Iklim antarabangsa di Perancis (COP 21) pada tahun 2015.

Dengan itu, dalam rangka sesebuah organisasi atau pihak industri yang ingin tampil sebagai perintis (pelopor) dan berdaya saing sebagai pemimpin dalam pembangunan lestari dan pentadbiran kelestarian yang unggul, pelbagai cara boleh dilakukan, antaranya melalui persijilan dan pengiktirafan sistem kualiti, pengurusan dan lain-lain.

Energy Management Gold Standard (EMGS) di bawah Asean Energy Management Scheme (AEMAS), iaitu sistem pensijilan serantau pertama untuk pengurus tenaga dan pengguna akhir tenaga bagi penarafan satu hingga tiga bintang di bawah skim ini.

Program AEMAS ini dilancarkan pada 2010 dan dilaksanakan di lapan negara Asean (tidak termasuk Singapura dan Brunei). Program ini dipimpin oleh Asean Centre for Energyyang berpusat di Jakarta dan GreenTech Malaysia merupakan wakil Malaysia dalam pelaksanaan program AEMAS ini. Tujuan utama AEMAS adalah untuk meningkatkan kecekapan tenaga dan mengurangkan pelepasan gas rumah kaca di negara Asean. Projek ini melahirkan pengurus tenaga terlatih, penerapan nilai-nilai mumi dan amalan hifau

dalam pengurusan tenaga serta mengiktiraf pengguna akhir yang berjaya dalam sistem ini.

Kementerian Kesihatan Malaysia (KKM) telah mengambil langkah proaktif dengan melaksanakan sistem pengurusan tenaga lestari di hospital melalui pengiktirafan EMGS, Sebanyak 149 hospital dan institut kesihatan di bawah KKM telah urut serta dalam program ini dan sehingga 2017, lebih 100 organisasi telah diiktiraf di bawah penilaian EMGS.

Terdapat tiga tahap Program Penarafan EMGS, iaitu:

- 1 bintang: mengukur sejauh mana sesuatu organisasi itu mewujudkan dan melaksanakan sistem pengurusan tenagayang baik dan berkesan
- 2 bintang: mengukur hasil pengurangan kepenggunaan tenaga dengan kadar minimum 5 peratus daripada tanda asas (baseline).
- 3 bintang penilaian sejauh mana pengurusan tenaga secara cekap dan berkesan sudah menjadi budaya dalam sesuatu organisasi itu di mana berlakunya penyepaduan antara sistem pengurusan tenaga serta sistem kualiti dan piawaian sedia ada dalam organisasi tersebut.

Berdasarkan analisis impak secara langsung daripada program AEMAS di Malaysia, sekurang-kurangnya sebanyak 12,000 tan pelepasan karbon dioksida dapat dikurangkan setiap tahun, dan jika dibayangkan secara nyata berapa besar satu tan tersebut, boleh disamakan sebesar satu rumah teres 2 tingkat sederhana besar.

Sekurang-kurangnya 5 peratus daripada keseluruhan penggunaan tenaga juga dapat dijimatkan secara langsung daripada pelaksanaan sistem pengurusan tenaga lestari.

Selain meningkatkan kemahiran teknikal dan pembangunan modal insan dengan melahirkan lebih 1300 pengurus tenaga melalui AEMAS, program EMGS ini juga telah menghasilkan pengurangan tenaga sekurang-kurangnya 14 juta kWh bersamaan penjimatan kos sebanyak RM4.9 juta setahun berdasarkan analisa terhadan 35 hospital dan institusi-institusi kesihatan yang terlibat.

Teknologi Hijau untuk Semua.

*Penulis ialah Ketua Pegawai Eksekatif Kumpulan GreenTech Malaysia, drmaza@greentechmalaysia.my

LAMPIRAN 5 NEW STRAITS TIMES (VIEWPOINT): MUKA SURAT 4 TARIKH: 16 SEPTEMBER 2018 (AHAD)

Perak goes ahead with plastic-free days

State will kick-start initiative again despite first failed attempt, says exco man

By ALLISON LAI allison@thestar.com.my

IPOH: Perak will press ahead with plastic-free days which failed previously due to a lack of public awareness and support.

ness and support.
"Initiatives like this have to be taught from young. We want not just plastic-free but also a car-free day," said state environment committee chairman Prof Dr Abdul Aziz Bari.
The silver state, he said, was com-

The silver state, he said, was committed to environmentally-friendly policies.

In 2016, the then Barisan Nasional state government announced the first phase of a statewide ban on plastic bags and polystyrene containers, but it failed.

For the plastic free initiative to work, Dr Abdul Aziz said a comprehensive coordination at the state level was necessary, as the local councils were the ones that would oversee the implementation and enforcement.

enforcement.
"They are the ones who have the say and means to initiate and put into action all policies and initiatives."

"It is important to have some kind of coordination and synchronisation within the state government so that we are able to push the initiative effectively," he said after opening the World Clean Up Day where 500 students and staff from Quest International University Perak cleaned up the riverbank along Kinta River.

He also noted that Malaysia need-

He also noted that Malaysia needed a special national council to work on matters related to environmental protection.

Representatives from the Energy, Science, Technology, Environment and Climate Change Ministry and environment excos from all states could sit in the council, he said. "We don't have such a body coordinating the policies and issue initiatives related to the environment, which is very important. We hope there will be more national coordination on this. Unlike Penang and Selangor, such initiatives are new to some states like for us in Perak

some states, like for us in Perak.
"We don't have the experience
and expertise. That is why this issue
ought to be shared. I hope for a
roundtable discussion with the
minister and all state environment
excos soon.

"This way we can increase awareness among the people to care for the environment because without the people's cooperation, efforts by any environment agencies will not work" he said.

work," he said.

Dr Abdul Aziz, who is a constitutional law expert, noted that there
was no clause or provision on environment protection in the Federal
Constitution.



Doing their part: Dr Abdul Aziz (right) cleaning up some rubbish during the World Clean Up Day along Kinta River in Perak.

LAMPIRAN 6 NEW STRAITS TIMES (VIEWPOINT): MUKA SURAT 4 TARIKH: 16 SEPTEMBER 2018 (AHAD)



AHMAD A TALIB CABINET

LEARN TO COMMUNICATE, YBs!

YBs must be seen and heard; they must serve the people who voted for them

EAR Yang Berhormat, much ado was made by certain quarters about your first 100 days in office. This goes to all Yang Berhormat, regardless of which side of the political divide you are an

Of course, the focus is more on those of you from Pakatan Harapan, which swept into power after defeating Barisan Nasional in the May 9 general election. There were so many new faces that some of you are hardly known and visible.

YBs, you must be seen and heard! For the right reason, of course. I notice that some cabinet ministers are still groping, with their new role and responsibilities. Communication is the key, YBs. Learn to communicate well and you shall be rewarded.

Until lately, the first 100 days in office was not a local issue. It became one when Pakatan Harapan made certain promises that they would undertake to do in the first 100 days after forming the government.

Whether or not the promises made and declared in their manifesto that they would be delivered within 100 days helped to win the election is debatable. But they certainly caught voters' imagination.

And now, voters are demanding that the promises be kept and delivered. I'm not commenting on this beyond saying that the promises must be kept, or you may face the voters' wrath five years down the road.

Of course, you now know that many things are worse that you had anticipated and that it might take more than a few hundred days to sort out and deliver.

I would leave that aside for now because that is a matter for the Federal Government to tackle. I'm more concerned about individual YBs, especially those who entered the fray for the first time and now find your-

post? BERNAMA PIC selves a lawmaker.

Some of you must have been half-surprised that you are now THE government! YBs, being an elected representative is not a bed of roses. Many of you will soon know, or may have known so by now.

What difference can you make, YB? I know there were many kenduris held by you and for you in the last few months. A makan besar here and a makan kecil, that is to he expected. I know a new YB has been feted so many times that some voters could memorise his "thank you" speeches!

These kenduris have to stop at some point. I hope the new YBs would have settled down and set up your own operational network in your constituencies. This is important because you have to serve the people who voted for you and made you their elected representatives.

You have to repay their confidence. Some of you may have found yourself with a new job, such as being made a minister, deputy minister, menteri besar or chief minister. This is by no means a small task! If you are fortunate to been given such a task, then the task of looking after your constituency becomes more challenging.

I hope the newbies among you would, by now, set up your service centres, manned by people you trust and are capable of being the bridge between you and the rakyat. While you go about in carrying your tasks as a minister or the equivalent, please remember that you have an electorate to serve.

You can't be just discharging your duties in the cabinet or state secretariat all the time. You must come back to your kawasan (area) and see to the needs of your voters.

I have heard some scary stories in the last month or so, Individuals who claimed to be acting on behalf of a new assemblyman have been going around "selling" forms. It seems that these individuals have been promised by the new YB that they would be rewarded with government land, and the assemblyman would ensure that the applications would be duly approved by the menteri besar and state executive council members.

that certain individuals have been appointed as the assemblyman's point man in the hawasan. If voters want to

the kawasan. If voters want to meet the elected representative, they have to go through these individuals.

This is a YB from the ruling government. If this is true, then this a poor reflection of the transparency and good governance that the government has declared to promote. You have to do an immediate probe into this, YB, before it gets worse. For all we know, you may not have even issued such an instruction! But, the operators on the ground are taking advantage of their closeness with you, your inexperience and they have no qualms about exploiting the situation.

I hope this is not true. New YBs must be alert to the possibility of such scams by opportunists. Unless you yourself are an opportunist YB! God forbid!

tunist, YB! God forbid!

YBs, don't fail us, the voters. We put you there for a purpose. Do your job well and sincerely. Live up to your promises. We expect nothing less.

ahmadt5l@gmail.eom

The writer is chairman of Yayasan Salam Malaysia

You have to repay their confidence. Some of you may have found yourself with a new job, such as being made a minister, deputy minister or menteri besar or chief minister as the case may be. This is by no means a small task!

LAMPIRAN 7 **UTUSAN MALAYSIA (BISNES): MUKA SURAT 47** TARIKH: 18 SEPTEMBER 2018 (SELASA)





di dalam laman web Yayasan TNB yang memb ra kepada pelajar bermula 17 September 2018.

Laksana pelbagai program CSR pendidikan dari sekolah rendah hingga universiti

TNB perkasa pendidikan negara

Oleh JOHARDY IBRAHIM ekonomi@utusan.com.mu

■ KUALA LUMPUR 17 SEPT.

ENAGA Nasional Berhad (TNB) bukan sekadar me-nyinari Malaysia tetapi juga di dalam memperkasakan masyarakat menerusi pelbagai inisiatif tanggungjawab sosial korporat (CSR).

Sebagai syarikat utiliti terulung negara, TNB menyokong penuh program khususnya 'Pemerkasaan Pendidikan', satu daripada teras aktiviti CSR syarikat. TNB menjalin kerjasama de

ngan sekolah-sekolah di seluruh negara bagi membantu merea-lisasikan impian para pelajar. Satu daripada inisiatif itu ialah menerusi program PINTAR atau Promoting Intelligence, Nurturing Talent, Advocating Responsibi-lity (Mempromosikan Kepintaran, Memupuk Bakat, Mengadvokasi Tanggungjawab).

Tanggungjawan).
Sejak diperkenalkan pada
2006, TNB bersama-sama warga
pendidik untuk meringkatkan
prestasi akademik para pelajar
yang tidak bernasib baik di kawasan pedalaman terpiih.
Belbaru aktiviti sekolah se-

Pelbagai aktiviti sekolah se-perti perkhemahan motivasi, kelas tuisyen, program kepimpinan dan seminar peperiksaan yang di-anjurkan di bawah PINTAR, memperkasa setiap anak untuk men-jadi penimpin di masa hadapan. Setakat ini, kira-kira 16,556 pelajar sekolah di 58 sekolah telah menerima manfaat daripada pem-babitan TNB di dalam program sekolah PINTAR.

Penyertaan TNB di dalam bidang pendidikan negara, se-benarnya lebih meluas dengan penyediaan biasiswa menerusi

Dermasiswa

My Brighter Future

TNB, dengan kerjasama Kementerian Pendidikan Malaysia (KPM) telah memilih 1,000 pelajar yang layak bagi sesi kemasukan Semester 1, 2018/2019 IPTA. KPM telah menyelaras usaha mengenal pasti calon yang layak, termasuk membuat padanan dengan pangkalan data eKasih yang dikendalikan oleh Unit Penyelarasan Pelaksanaan, Jabatan Perdana Menteri. Surat tawaran bersyarat Dermasiswa My Brighter Future ini telah mula dikeluarkan kepada pelajar bersama-sama surat tawaran kemasukan ke universiti awam masingmasing sejak Ogos lalu.

Yayasan Tenaga Nasional (YTN) untuk para pelajar daripada golo-ngan tidak berkemampuan selain menarik minat pelajar cemerlang serta mereka yang mempunyai ciri kepemimpinan untuk memo-hon biasiswa ini. Daripada satu aspek, program

ini adalah satu kaedah mempro-mosi TNB serta menarik minat bakal pemimpin untuk berkhid-mat dengan TNB.

Matlamat ini didorong oleh hakikat bahawa dengan teknologi serba canggih kini, persaingan



semakin sengit dan TNB tidak boleh ketinggalan, sekali gus perlu memperluaskan perniagaan ke peringkat global.

Dengan program biasiswa se-umpamanya, TNB boleh mencari bakat baharu atau pelajar yang mempunyai minat dan daya saing untuk menjadi pelapis bagi menggantikan ke yang ada kini. kepemimpinan TNB

yang ada kini.
Menerusi biasiswa YTN, pelajar boleh memilih belajar di dalam negara dan menyambung pe-ngajian tahun akhir di luar negara atau melanjutkan pelajaran secara terus di luar negara. Dalam konteks ini TNB mem

runtukkan biasiswa bemilai RM10 juta kepada 1,000 pelajar institusi pengajian tinggi awam tahun ini.

Buat permulaan, biasiswa My Brighter Future ini diberikan ke-Brighter Puture in thoehan se-pada 1,000 pelajar yang berjaya melanjutkan pelajaran ke pering-kat ijazah pertama dalam bidang Sains, Teknologi, Kejuruteraan dan Matematik (STEM).

KELUARGA SUSAH
Pengerusi TNB, Tan Sri Leo Moggie pada sidang akhbar selepas
majlis penyerahan biasiswa di ibu
negara baru-baru ini, berkata, pemberian biasiswa khas itu disasarkan kepada pelajar daripada keluarga berpendapatan rendah.

Yang turut hadir pada majlis 29

Ogos lalu itu ialah Presiden dan Ketua Pegawai Eksekutif, Datuk Seri Ir. Azman Mohd., dan Ketua

Seri Ir. Azirian Molici, dan ketua Pegawai Korporat TNB, Datuk Ro-slan Ab. Rahman. Sejak 1933, TNB menerusi YTN memperuntukkan lebih RMI bi-lion sebagai biasiswa dan pinjaman boleh ubah kepada 11,000 pelajar cemerlang.

Bantuan kewangan itu akan membantu keluarga berkenaan membiayai kos pendidikan anak-anak dan membantu mereka keluar

daripada belenggu kemiskinan. TNB yang setiap tahun me-naja biasiswa dan pinjaman boleh ubah kepada pelajar cemerlang, kini menawarkan dermasiswa khusus untuk penuntut daripada keluarga berpendapatan terendah melanjutkan pelajaran di Institusi

melanjutkan pelajaran di Institusi Pengajian Tinggi Awam (IPTA). Buat permulaan, dermasiswa yang dikenali Dermasiswa My Brighter Future ini diberikan kepada 1,000 orang penuntut yang berjaya melanjutkan pelajaran di peringkat ijazah pertama dalam bidang Science, Technology, Engineering & Mathematics (STEM).

Kaliini TNB memberikan tajaan Dermasiswa My Brighter Future, pang pertama seumpamanya, un-

yang pertama seumpamanya, un-tuk membantu pelajar daripada keluarga susah yang mendapat tempat di universiti awam.

Matlamat Dermasiswa Brighter Future bukan sahaja dapat meringankan beban keluarga berpendapatan terendah menampung kos anak mereka menuntut di universiti, malah kemudiarnya membolehkan mereka keluar daripada kepompong kemiskinan.

PEMERIMA Pada majlis tersebut, 10 penerima Dermasiswa My Brighter Fu-ture yang baru mendaftar di Universiti Teknologi MARA (UiTM) menerima sijil tawaran derma-

siswa masing-masing.
Selain UTIM, dermasiswa juga
ditawarkan kepada mereka yang
melanjutkan pelajaran di Universiti Malaysia Sarawak (UNIMAS), Universiti Malaysia Sabah (UMS), Universiti Teknikal Malaysia Me-laka (UTeM), Universiti Malaysia Pahang (UMP), Universiti Malay-sia Perlis (UniMAP) dan Universiti

sia Perfis (UniMAP) dan Universiti
Tun Hussein Onn (UTHM).
Dermasiswa My Brighter Future ini adalah kesinambungan
kepada komitmen TNB untuk
memperkasa pendidikan di Malaysia dan membangunkan modal
insan untuk negara.

insan untuk negara.

Ta juga bagi meningkatkan modal insan untuk industri perbekalan elektrik negara yang telah dilaksanakannya menerusi YTN dan Universiti Tenaga Nasional (Uniten).

Dermasiswa itu juga diharap bukan sahaja dapat meringankan beban keluarga berpendapatan terendah menampung kos pe-ngajian anak-anak mereka di universiti tetapi juga membolehkan mereka keluar daripada kepompong kemiskinan dan sebagai tanda memerdekakan diri selepas

berjaya kelak.
Tahun hadapan, TNB menang untuk menaja 4,000 penuntut lagi dan memperluaskan Dermasiswa My Brighter Future kepada universiti awam lain.

LAMPIRAN 8 THE STAR (EVENTS): MUKA SURAT 7 **TARIKH: 17 SEPTEMBER 2018 (ISNIN)**

Robots rule at fifth science fest

Visitors to Petrosains event get a good feel of the future

By M.MAGESWARI ges@thestar.com.my

ARTIFICIAL Intelligence (AI) and humanoid robots took centre stage at the Petrosains Science Festival 2018, which ended vesterday,

The festival, in its fifth year and themed "Journey Into The Future, One Discovery At A Time", was a crowd-puller that left the younger generation mesmerised by the

advanced technology on show.
Visitors, especially schoolchildren, were seen rushing to get a
closer look at the display of humanoid robots at the Concourse in Suria

KLCC. SK Pasir Gudang 4 pupil Qal Khalif Normisah, 12, from Johor, said he was excited to be able to touch a robot

"This is my first time being able to see and touch a robot. It was real fun," said Qal Khalif, who was at the festival with 21 of his schoolmates

aged 10 to 12. Azri Md Ridza, 12, from the Cyberjaya-based Abedeen International School, said he was thrilled to be at such an event in

"I saw a robot for the first time in Oatar," he said.

Abedeen International School Abdeen International School teacher Amira Diana Jasni said 60 of its students aged between seven and 15 were at the festival.
"This is a school trip and they are clearly very excited," she said.

One of the highlights of the festi-One of the highlights of the resu-val was RoboThespian or RT, a robot by British scientists which has been procured by Petrosains. RT, a life-size, interactive, fully programmable humanoid designed.

or human interaction in a public environment, was on display at the

The telepresence robot can also be programmed to sing, act and give speeches, delivering an incredi-bly expressive range of movements

and emotions

Petrosains chief executive officer Tengku Nasariah Tengku Syed Ibrahim said RT would be perma-nently based at Petrosains.

"I hope it is a wow factor," she said, adding that they wanted to strike a balance between educational and enjoyable activities at the festival.

"The festival is yet another step that we take towards wroulding from

"The festival is yet another step that we take towards providing fur-ther meaningful and accessible sci-ence learning," she added. China-based AI and robotics high-tech company Libtech Robotics Corp deputy general manager (overseas) Peng Wu said that as an interna-tional partner. It had brough 10 dit. tional partner, it had brought 10 different types of robots to the festival.

"There are educational, lifestyle and service robots," he said. For instance, he said, the Alpha series mini robot has a sensor and can express emotions similar to "It has motion ability and can be

"It has mooth ability and can be programmed to be intelligent animated companions," he said, adding that it could also be programmed to use various languages as required.

Ubtech education product manager Yang Li said it had brought six designs of directional receivers.

designs of educational robots called

"This type of robot building will deliver a fun experience to the chil-dren and enhance creative and logical thinking.

cal thinking
"We have models such as animals, a factory, a machine and cars
to teach children about robotic programming," he said, adding that
they had cooperated with schools
and universities to incorporate programming and curiculum on AI and
calories. robotics.

Meanwhile, Nur Shuhada Meanwrine, Nur Snunada Borhan, who is business develop-ment leader at local robotics and AI solution provider Robopreneur Sdn Bhd, said the company dis-played a humanoid robot from



Tengku Nasariah checking out the Alpha series mini robot after the briefing by Wu at the Petrosains Science Festival 2018. — Photos: AZMAN GHANI/⊺he Star

France called Nao

"We use this humanoid robot as a platform for autism therapy," she said, adding that it could also be used to greet customers at banks

used to greet customers at banks
Robopreneur also exhibited a
mobile robot called Sanbot.
"It is suitable for launching
events and exhibitions," said Nur
Shuhada.

In addition, the company show cased an education robot called cased an education round cared Rookie, specially created for the learning of science, technology, engineering and mathematics. "Students can gain exposure to the world of robotics by exploring

the hardware, mechanism and cod-ing of the robot," she said. Nur Shuhada added that the com-

Nur Shuhada added that the com-pany was in the midst of developing the first Malaysian humanoid robot by the name of Adam, which would be manufactured by year end. Meanwhile, Universiti Teknologi Mara's (UiTM) Satellite Com-

marias (OHM) satellite Com-munication Centre research coordi-nator Dr Siti Amalina Enche Ab Rahim said its contribution to the festival was a 1kg nanosatellite. "The nanosatellite is a collabora-tion with Japan, Bhutan and the

es called Joint Global Multi-

Philippines called Joint Global Multi-nation BIRDS-2 project.

"Two UiTM students were sent to Kyushu institute of Technology in Japan to develop three identical nanosatellites with the 10-member team. These nanosatellites were

deployed to space in early August.
"We are currently working with local universities to build similar nanosatellites in Malaysia and hop to launch them by 2020," she said.

Petrosains strategic marketing and communications director



ROBOPRENEUR

showing the humanoid robot

Shamini Balan said various activi-ties had been organised to suit the needs of different age groups at the festival.

lestival.

"For pre-schoolers, we have the creative and basic building activities at our PlayLab area.

"At the Maker Studio, our team has prepared 10 kinds of tinkering kits for children and adults to

assemble and make things for hands-on learning on the founda-tions of science and technology. "Children can look forward to learning about the constellation or types of circuits at the Maker Studio, all from materials that have been

carefully packed in the kit and can

carefully packed in the kit and can be purchased for a minimal fee. "For older children, activities at our Beta room such as soldering and hologram workshops will appeal to their inner creativity and innovative streak," she added. There were also live performances by local artistes Ismail Izzani and Hael Husaini, cultural dance per-formances by Tourism Malaysia, a fashion competition using recycled items by Alam Hora, a choir festi-val and science talks, This year, 54 partners came on

This year, 54 partners came on board for the three-day science fes-



Dr Siti Amalina with the nanosatellite displayed at the festival



Children excited to see and touch robots on display at the Concourse. Suria KLCC



LAMPIRAN 9 MALAY MAIL (RINGGITPLUS): MUKA SURAT 25 TARIKH: 17 SEPTEMBER 2018 (ISNIN)



LAMPIRAN 9 (SAMBUNGAN) MALAY MAIL (RINGGITPLUS): MUKA SURAT 25 TARIKH: 17 SEPTEMBER 2018 (ISNIN)

cancelled in mutual agreement, with reports emerging soon after that TNB may be looking at doing the fiberisation project on its own.

Now that TNB has announced its plans to enter into the high-speed broadband market using its fibre optics network, it may very well set itself to be TM's main network competitor if successful. Meanwhile, the NFP has been renamed to the National Connectivity Plan (NCP) and the project in Jasin will be the pilot project under this initiative. It involves 1,100 out of 4,300 houses in Taman Merbau, Taman Maju, and Felda Kemendor and should be completed by the end of 2018.

TNB Chairman Tan Sri Leo Moggie said the initiative would allow faster, cheaper, and wider Internet connectivity. "The households will gain access to a high-speed broadband network that would be made available through TNB's fibre optics," he explained. "This pilot project will be the platform to test the concept of open access. The platform is expected to stimulate active participation from new and existing providers in backhaul and retail broadband that would create competition that should push broadband pries down for the benefit of Malaysians."

Some members of the public may be surprised to hear that a power company has such an extensive fibre optic infrastructure already in place. TNB first ventured into fibre optic cables in 1975 due to a requirement for its fault-tracking system, Scada, and remote metering systems. To date, it has over 12,000km of fibre access, poles, and ducts, with access to over 8 million customers. It was reported that TNB has invested RM10 billion in setting up this infrastructure. But up until now, TNB's bandwidth usage of this massive fibre optic network for supervisory control, and data acquisition systems has been considered small, which leads to the possibility of it being used for broadband services as well.

Communications and Multimedia Minister Gobind Singh Deo had previously made the request for TNB to consider offering its own fibre optic network to telecommunication providers to promote competition and choice for future and existing broadband users nationwide. "We might end up seeing two major infrastructure providers and other companies using them to provide better quality services over a broader area covering the country," said Gobind. "This is workable."

In short, this pilot ptoject will explore the potential of utilising the available capacity of TNB's telecommunications assets without compromising the safety and reliability of the electricity supply network. If the findings are promising, the outcome will be used as leverage for the commercial viability of TNB to embark on possible larger-scale NCP participation across Malaysia – which brings us one step closer to the existence of a competitive high-speed broadband market with extensive coverage and lower prices.

"This was brought to you by Jacie Tan Cheng Hwee from Ringgit Plus.com. Ringgit Plus compares credit cards, personal loans, and home loans to help Malaysians get more for their money.



LAMPIRAN 10 NEW STRAITS TIMES (OPINION): MUKA SURAT 22 TARIKH: 16 SEPTEMBER 2018 (AHAD)



MOHAMED GHOUSE NASURUDDIN



PARADIGM SHIFT

CHANGING EDUCATIVE PROCESS

Education policy must incorporate sciences and arts for the development of verbal, non-verbal and kinetic thinking

DUCATION is a process to develop modes of thinking that would enable us to fathom life's natural and manmade phenom-

To understand these divine and human creations, man has to use his mental and critical faculties, which refer to the thought process or in short, thinking. The thinking process involves the analysis of phenomena to develop meaningful constructs and the development of this thought process is through formal and experiential learning.

Experiential learning plays a significant part in primitive societies where knowledge is gained through experience in actual life situations. The thinking process is developed through observation and skills by way of imitation, which is embedded in the mind intuitively. Thus, critical analysis is mainly intuitive without conscious deconstruction and reconstruction. This is very much so with traditional craftsmen and artists, who create functional and spiritual crafts and objets d'art without any blueprints, but mainly from intuitive memory.

without any blueprints, but mainly from intuitive memory.

In modern society, the development of thinking is undertaken by way of formal schooling, by exposing students to various modes of knowledge through specific subjects. Each group of subjects develops a different thinking mode that ranges from computational thinking in science and

mathematics, visual thinking in arts and design, conceptual thinking in history, religion and literature, verbal expressive thinking in languages and kinetic thinking in aesthetic and sporting activities. Each subject has its own merit in contributing to a holistic perception of life's phenomena at different levels of cognition.

Different levels of schooling teach students different levels of thinking modes. For example, in kindergarten, it focuses on visual mode of thinking and expressions. Here, the thinking process is pictorial and tactile in creating and assembling pieces of materials into shapes and forms. They transit to the initial computational thinking in the primary years when visual thinking still remains the norm. It is only in secondary and tertiary schooling that students are guided into conceptual and abstract thinking while the higher level of thinking is usually taught and practiced at the upperent of the educational system, namely the university years.

Thus, the educative process is a conglomeration of modes of thinking.

However, our education system emphasises computational thinking over others, focusing on STEM subjects (Science, Technology, Engineering and Mathematics). It, nevertheless, accedes due credence to conceptual and verbal thinking. But, it neglects visual and kinetic thinking, which is grounded in the visual and performing arts. This lack of recognition for the arts is because they do not feature in the innovation of scientific products. They are intangible, sometimes obfuscate and abstract, but nevertheless, are equally important cerebral activity that promotes thinking and problem solving.

Our educative process should in fact promote the various types of thinking by ensuring that students are exposed to these



Students need to be educated in the arts as it teaches them to be intuitive and have creative impulses. FILE PIC

thoughts process through the curriculum, which should incorporate science and arts to allow for the development of verbal, non-verbal and kinetic thinking.

Different subjects require different modes of thinking. Science, mathematics and philosophy are based on logical and rational thinking, while the arts, such as history and geography, are based on causal reasoning. The fine arts (visual and performing arts) are engaged in creative and abstract thinking as well as Intuitive reflection.

The performing arts, especially, is where intuitive reflexes override conscious logical thinking. Dance and music are not based on a logical architectonic structure as in mathematics or physics, but on intuitive and creative impulses.

Drama, on the other hand, is grounded in logical progression of thoughts based on cause and effect, especially in realistic plays, which transforms reality and also engage in the illogicality of actions in play that may disregard logic but acknowledge the absurdity of existence.

Despite their educative thought process, the performing arts in schools and universities' curriculum are dispensed as filling the void of leisure time; a distraction from the rigours of scientific and other scholarly studies.

This attitude towards the arts is the norm with educational policy makers and especially those who are scientifically oriented, simply because they do not understand visual and kinetic thinking.

ing.

It is important that we recognise the objective computational knowledge and subjective abstract knowledge augment each other in understanding natural and mammade phenomena as well as towards the development of a holistic person.

While science promotes evidence-based objective thinking, the arts allow us to move into the realm of abstraction and beyond reason. It allows emotional expression especially in language, literature and philosophy, which touch the soul and explore humanity's harmonious and discordant behavioural pattern.

It is, therefore, imperative that we expose students to a variety of subjects that require different thought processes from the conscious mechanistic to the unconscious intuitive. This would equip students with, not only, the means of solving problems, but also in exploring manmade and natural phenomena by combining disparate elements to create new percepts as well as new tangible and intangible functional and aesthetic forms.

There is a need for a paradigm shift with respect to science and arts which are currently compartmentalised. Policy makers need to bring to confluence these two broad fields of study. The current attitude is that the twain shall not meet and the condescending stance that science is superior to the arts. In fact, the arts are as crucial as the sciences in the educative process.

Schools should, therefore, allow a free flow of the arts and science in the curriculum to allow for the inclusion of a broader spectrum of scientific and arts studies in developing holistic students.

What is important is the mode of thinking that is logical, creative and imaginative, which encompass numerical, abstract and even irrational thinking. All these will provide students with the critical and intuitive tools to understand and use the multifaceted phenomena of existence.

The writer is an emeritus professor at the Centre for Policy Research and International Studies, Universiti Sains Malaysia, Penang

It is, therefore, imperative that we expose students to a variety of subjects that require different thought process from the conscious mechanistic to the unconscious

intuitive.



LAMPIRAN 11 NEW STRAITS TIMES (LIFE & TIMES): MUKA SURAT 48 TARIKH: 15 SEPTEMBER 2018 (SABTU)



LAMPIRAN 12 SINAR HARIAN (NASIONAL): MUKA SURAT 9 TARIKH: 15 SEPTEMBER 2018 (SABTU)

BMW taja kereta hibrid 5 Series untuk CEPSI 2018

KUALA LUMPUR - BMW Group Malaysia (BMW) kelmarin menyerahkan beberapa kereta hibrid BMW 5 Series yang dilengkapi Teknologi 'eDrivE' kepada Tenaga Nasional Bhd (TNB) bersempena Persidangan Industri Bekalan Elektrik (CEPSI) 2018, 17 hingtga 22 September ini.

Pengarah Urusan dan Ketua Pegawai Eksekutif BMW,
Harald Hoelzl berkata, usaha
itu memaparkan aspirasi syarikat automotif itu sebagai
rakan utama transformasi
industri kenderaan elektrik
tempatan serta membantu
mencapai cita-cita Malaysia
dalam usaha pembangunan
mapan.

"Kami berharap untuk dapat saling bertukar kepakaran dan pandangan dengan peneraju industri selain memperoleh pengetahuan daripada ramai pemimpin di CEPSI dalam usaha pembentukan Malaysia yang lebih berjaya," katanya dalam satu kenyataan.

Kereta mewah berkenaan akan digunakan sebagai kereta rasmi sepanjang persidangan berkenaan berlangsung di Pusat Konvensyen



Harald menyerahkan kereta hibrid BMW 5 Series dilengkapi Teknologi 'eDrive' kepada Roslan (kanan) di Ibu Pejabat TNB di Bangsar.

Kuala Lumpur.

Harald menyerahkan kereta terbabit kepada Ketua Pegawai Korporat TNB, Datuk Wira Roslan Ab Rahman di Ibu Pejabat TNB di Bangsar, di sini.

Sementara itu, Roslan berkata, pakatan dalam membentuk kerjasama e-mobiliti itu adalah yang pertama untuk CEPSI sejak penganjurannya bermula di Hong Kong pada tahun 1976.

Menurutnya, kerjasama

berkenaan bertepatan pada masanya sejajar dengan perkembangan revolusi kenderaan elektrik dalam pengangkutan di serata dunia.

"Atas alasan ini, TNB menerusi anak syarikat milik penuhnya, TNB Energy Services Sdn Bhd menjalin kerjasama dengan Perbadanan Teknologi Hijau Malaysia bagi menawarkan perkhidmatan bersepadu kepada pemilik kenderaan elektrik di Malaysia," katanya.

Untuk rekod, TNB menganjurkan CEPSI 2018 sebagai mewakili pihak Persatuan Industri Bekalan Elektrik Asia Timur dan Pasifik Barat (AE-SIEAP).

Menurut Roslan, kereta BMW itu adalah bagi kegunaan kalangan tetamu kehormat dan anggota majlis eksekutif AESIEAP sepanjang tempoh persidangan selama lima hari berkenaan.

LAMPIRAN 13 THE STAR (NATION): MUKA SURAT 14 TARIKH: 15 SEPTEMBER 2018 (SABTU)

Petrosains festival back to thrill smart minds

KUALA LUMPUR: The Petrosains Science Festival is back again as a community event.

It is among the science centre's key initiatives to inspire the learning of science through a platform that it engaging, educational, impactful and enjoyable, said its chief executive officer Tengku Nasariah Tengku Syed Ibrahim.

She said the festival, which was into its fifth year, continued to celebrate science in the community such as in major cities like New York, Edinburgh, Abu Dhabi, Brisbane and Singapore.

"This community event has grown to be the biggest science-based festival in the country aimed at promoting the learning of science to create a more science-literate society in the country.

"It provides a unified platform in the community where both the public and private sectors, key industry players and academia can work together to inspire and instil an understanding and appreciation for science in our society," she said at the launch of the three-day Petrosains Science Festival 2018 event at KLCC Park.

Also present was Petronas chairman Datuk Ahmad Nizam Salleh.

Tengku Nasariah said the festival was also an extension of the centre's



One for science lovers: Nasariah (in green) together with Ahmad Nizam (on her right), Star Media Group Bhd chief revenue officer Lydia Wang (fourth from right) standing alongside key partners for the festival during the event at the Esplanade in KLCC Park.

commitment to nurture meaningful learning of science, technology, engineering and mathematics or STEM.

"The reason why it is so important for us to do that is because the role of science and STEM in our lives cannot be overstated.

"It encompasses everything that we do, it improves our lives and shapes our understanding of the world around us," Tengku Nasariah said.

She added that Petrosains could help to engage the public to learn about global changes and challenges and make the learning accessible, engaging interesting and memorable.

engaging, interesting and memorable.
"Educational programmes, exhibits and festival such as this event have the potential to help people see and understand possibilities of the future, the science of tomorrow and how to embrace the imminent Fourth

Industrial Revolution," she added.

The festival is being held at Galleria Petrosains, Petrosains, The Discovery Centre (9.30am-6.30pm); and Concourse Suria KLCC and Esplanade KLCC Park (10am to 10pm).





LAMPIRAN 14 THE STAR (WORLD): MUKA SURAT 22 TARIKH: 18 SEPTEMBER 2018 (SELASA)

Mangkhut's trail of destruction



Force of nature: A taxi pushed by strong wind ends up under a fallen tree in the aftermath of Typhoon Mangkhut as Hong Kong begins picking up

the pieces

Hong Kong begins monumental clean-up in super typhoon's wake

HONG KONG: Hong Kong began a massive clean-up after Typhoon Mangkhut raked the city, shredding trees and bringing damaging floods, in a trail of destruction that has left dozens dead in the Philippines and millions evacuated in southern China.

The death toll in the Philippines, where the main island of Luzon was mauled with fierce winds and rain, rose to 65 yesterday as rescuers pulled more bodies from a huge landslide in the mountain town of Ingon

Itogon.
National police spokesman
Senior Superintendent Benigno
Durana said 43 other people are
missing, and more than 155,000

people remain in evacuation centres two days after the typhoon struck.

After tearing through Luzon and pummelling Hong. Kong and Macau, the storm made landfall in mainland China late on Sunday, with two reported dead in Guangdong province.

Authorities there said they had

Authorities there said they had evacuated more than three million people and ordered tens of thousands of fishing boats back to port before the arrival of what Chinese media had dubbed the "King of Storms".

The monumental task of cleaning up the city began as residents, some in suits and ties, struggled to

Nature's wrath: People walking past damage and debris caused by the super typhoon on the waterfront in Hong Kong. — AP

get back to work on roads that remained blocked by felled trees, mud and debris.

Schools were closed, along with bus services, and travel disruption saw commuters piling onto platforms trying to board infrequent trains after trees fell on overhead lines.

Landslides and severe flooding affected some areas, with over 1,500 residents seeking refuge in temporary shelters overnight.

— AFP

LAMPIRAN 15 THE STAR (WORLD): MUKA SURAT 17 **TARIKH: 18 SEPTEMBER 2018 (SELASA)**

More destruction lies ahead

Officials warn of landslides and catastrophic flooding as waters rise

GRIFTON (United States): Catastrophic floods raised the threat of dam breaks and landslides across the southeastern United States, prolonging the agony caused by a killer hurricane that has left more than a dozen people dead and billions of dollars in damage.

Downgraded to a tropical depression, Florence slowly crawled over South and North Carolina, dumping heavy rains on already flood-swollen river basins that authorities warned could bring more death and destruction.

The National Weather Service Weather Prediction Center warned Sunday night of "heavy and excessive rainfall over the next couple of

There is an "elevated risk for landslides" in western North Carolina and southwest Virginia, as well as danger of "catastrophic and life-threatening flash flooding" in parts of the Carolinas, it said.

"A lot of people have evacuated already," said Denise Harper, a resi-dent of Grifton, a small North Carolina town threatened by rising water levels in a nearby creek and the River Neuse. "It's worrying to watch the water slowly rising."

At least 15 people have died since Florence made landfall Friday as a Category 1 hurricane near Wrightsville Beach, 10 in North Carolina and five in South Carolina. "Unfortunately we've still got several days to go," Brock Long, administrator of the Federal Emergency Management Agency told Fox

Management Agency, told Fox News.

Long said more havoc lays ahead as the storm broadens its geographic scope over regions deeply saturated with water.

Of particular concern were the risks to dams, already stressed by heavy rainfall from a tropical storm earlier in the month, he said, urging citizens to heed official warnings



Badly hit: A gas station stands damaged after Hurricane Florence near Topsail, North Carolina. (Inset) A fallen tree lies across a road in Richlands, North Carolina. — Bloomberg

about what was now a "flood

"What we have to focus on are there any dams that are potentially going to break."
"People fail to heed warnings and

get out or they get into the flood waters trying to escape their home. And that's where you start to see deaths escalate," he told CBS News.

"Even though hurricanes are categorised by wind, it's the water that really causes the most loss of life."

A dull, leaden sky hung over Grifton on Sunday. Days of heavy rainfall have turned the surround-ing farmland into soggy marshland. Forty miles to the south, the tiny

town of Pollocksville, population 300, found itself cut in two on Sunday afternoon after the River Trent burst its banks.

With the rain pausing for the first time since Friday, local resident Logan Sosebee pulled out his kayak to carry food and supplies to those who need it on the other side of the flooded river.

"We still have no water and power, so I'm happy to help if I can, there's nothing else to do," he said.

"But the current is crazy." North Carolina Governor Roy Cooper earlier said "the strongest storm bands are dumping two to three inches of rain (5-7.5cm) per hour" over regions that had already received up to two feet of rain.

"That's enough to cause flooding in areas that have never flooded before until now. The risk is growing as well in the mountains, where rains could lead to dangerous landslides," he said.

A woman and her baby were among the storm's first casualties when a tree fell on their house.

Others killed included three who perished "due to flash flooding and swift water on roadways," according to the Duplin County Sheriff's Office, and a 61-year-old woman who died when her car hit a downed who died when her car hit a downed

LAMPIRAN 16 THE STAR (WORLD): MUKA SURAT 20 TARIKH: 18 SEPTEMBER 2018 (SELASA)

Machines to do more by 2025

WEF study finds robots will handle 52% of current work tasks

PARIS: Robots will handle 52% of current work tasks by 2025, almost twice as many as now, a World Economic Forum (WEF) study said.

The sharp increase could also see a net gain in "new roles" for humans, who will have to revamp skills to keep pace with the "seismic shift" in how we work with machines and computer programmes, the forum estimated.

"By 2025 more than half of all current workplace tasks will be performed by machines as opposed to 29% today," a statement by the Swiss non-profit organisation said.

Simultaneously, rapid changes in machines and algorithms, or computer processes that are designed to solve problems, "could create 133 million new roles in place of 75 million that will be displaced between now and 2022," the group forecast

Based near Geneva, the WEF is known for the annual pow-wow of wealthy individuals, politicians and business leaders that it organises in Davos, Switzerland.

Its report, The Future of Jobs 2018, foresees robots swiftly replacing

humans in the accounting, client management, industrial, postal and secretarial sectors.

Jobs that require "human skills" such as sales, marketing and customer service should see demand increase meanwhile, along with e-commerce and social media.

A major challenge will be to retrain workers, who will themselves be pressed to update skills especially in the areas of "creativity, critical thinking and persuasion", the study found.

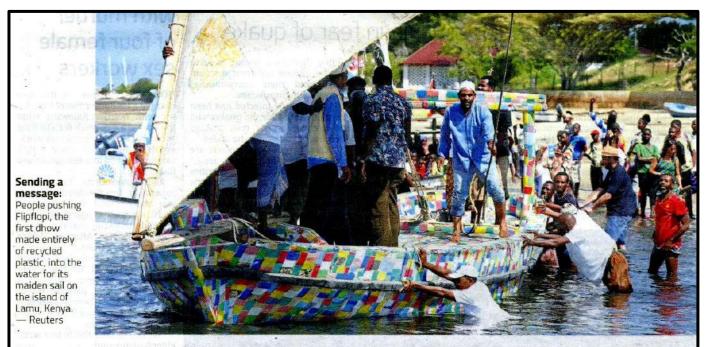
It surveyed personnel directors and senior executives from a broad range of companies around the world that account for 70% of global output.

Between now and 2022, they believe the aviation, travel and tourism sectors in particular will have to retrain workers, and identified an overall trend towards lifelong learning and adaptation.

Governments were advised meanwhile to prepare safety nets for workers and communities threatened by what the WEF concluded would be "a significant shift" in the quality and permanency of the new jobs. — AFP



LAMPIRAN 17 THE STAR (WORLD): MUKA SURAT 22 TARIKH: 17 SEPTEMBER 2018 (ISNIN)



Kenyans build plastic boat to highlight pollution

LAMU (Kenya): Kenyan islanders have built a boat made entirely of recycled plastic collected during clean-ups of the ocean to highlight the growing menace of plastic waste that ends up in the sea.

Last year, the Kenyan government imposed the world's toughest law against plastic bags, with offenders – including producers, retailers, and ordinary Kenyans – risking imprisonment for up to four years or fines of US\$40,000 (RM165,580), in a bid to reduce plastic pollution.

Many bags drift into the ocean, strangling turtles, suffocating seabirds and filling the stomachs of dolphins and whales.

The construction of the boat has been dubbed the FlipFlopi project because of the hundreds of recycled plastic sandals that cover the

The nine-metre sailing dhow, which the team built from over 10 tonnes of plastic waste, sailed for the first time in the waters off Kenya's Lamu island on Saturday.

Its launch coincided with interna-

tional World Cleanup Day, during which environmental groups carry out activities to tackle pollution.

The boat is a riot of colour, including red, green, blue and yellow, due to the re-purposed flip flops used to cover the hull and other parts.

"We hope people around the globe are inspired by our beautiful multicoloured boat and find their own ways to re-purpose alreadyused plastics," said Ben Morrison, the founder of the FlipFlopi project.

Morrison, who spent a decade building a travel business focused on Africa, turned to constructing colourful boats in 2016, when he noticed alarming pollution along the Kenyan coast.

The team used Kenyan facilities and technologies to recycle the plastic waste, and was led by local boat builder Ali Abdalla Skanda.

"We are proud to be a guide to the world and its inhabitants during this vital time of challenge for our ocean environment," Skanda said, adding they had received support from around the world as they built the boat. — Reuters

LAMPIRAN 18 THE STAR (SMEBIZ): MUKA SURAT 10 **TARIKH: 17 SEPTEMBER 2018 (ISNIN)**

New technology could replace 28 million jobs in region

INNOVATIONS in artificial intelligence (AI) technology, coupled with its increased adoption, will have a big impact on the workforce across Asean over the next decade according to a new study by Cisco

and Oxford Economics.
Titled "Technology and the
Future of Asean Jobs", the study
claims innovations in digital technology will present big opportuni-ties for Asean economies to boost

A more widespread adoption of existing technologies, coupled with advances in the use of Al through software, hardware and robotics. will cut costs of goods and services, driving demand and creating millions of new jobs

The study predicts that the sec tors that will see the greatest rise in demand for new workers are

wholesale and retail (1.8 million new jobs), manufacturing (0.9 million), construction (0.9 million) and

transport (0.7 million).

However, there will be a marked shift in the region's labour market as lower-skilled jobs are displaced.

"Many skills that we have now will be redundant. The lowest skilled workers will be the most at risk, and the sectors that are most vulnerable are in service and agri-culture," said Cisco South-East Asia president Naveen Menon.

He added that to achieve the same level of output, Asean's six largest economies will need 28 million fewer workers.

Singapore could see the biggest relative impact, with up to 21% of its workforce displaced. Vietnam and Thailand are next

in line, with 14% and 12% of jobs displaced, respectively.

Indonesia will see about 9.5 million jobs impacted. In Malaysia, 1.2 million jobs will be impacted.

The study predicts that over a 10-year period, the competing effects of job displacement and cre-ation will offset each other. However, many of these new jobs are likely to be created in areas different from those where they are being displaced.

As many as 6.6 million workers across the bloc's six largest econo-mies will have to adapt their skills and forge a new career path to remain productively employed.

The study reveals that 41% of those in displaced jobs are "acutely lacking" the IT skills that new jobs will be demanding. Almost 30% lack "interactive skills" that will be

needed for future job openings, such as negotiation, persuasion and customer service skills. Just over 25% also lack "founda-

tional skills", like active learning, reading and writing skills.

"This will require all stakehold-- businesses, governments and educators - to work together to ensure the region's current and future workforce are picking up skills that go beyond just technical knowledge.

"They need skills like problem solving, design and critical think ing, leadership, collaboration, con-flict resolution and empathy. In a digital future, where everyone will have access to the same data and information, these skills will be the key differentiator between being employable or not," Naveen

training approaches are needed, including greater commitment to on-the-job training, more flexible online courses and work experience schemes to complement or even, in some cases, substitute for a formal school and tertiary educa-

"It's not an exception for Vietnam. The digital transforma-tion is no long a vision, it has become the reality," said Cisco Vietnam country manager and general director Luong Le Thuy.

The challenge for Vietnam was that low-cost labour comprises the majority of jobs in the country.
"The government needs to have

some solution because this is going to be a really big challenge for the society," she said. — Viet Nam News/Asian News Network

LAMPIRAN 19 THE STAR: MUKA SURAT 7 TARIKH: 17 SEPTEMBER 2018 (ISNIN)



Rensselaer Polytechnic Institute graduate student Xiangyang Mou practises tai chi with an avatar. — AP

Al to teach Chinese

TO learn Chinese in this room, talk to the floating panda head.

The Mandarin-speaking avatar zips around a 360° restaurant scene in an artificial intelligence-driven instruction program that looks like a giant videogame.

Rensselaer Polytechnic Institute students testing the technology move inside the 12ft (3.7m) high, wrap-around projection to order virtual bean curd from the panda waiter, chat with Beijing market sellers and practice tai chi by mirroring moves of a watchful mentor.

"Definitely less anxiety than messing it up with a real human being," says Rahul Divekar, a computer science graduate student working on the project. "So compared to that anxiety, this is a lot more easy."

The Mandarin Project is a joint venture of RPI and IBM.

Cognitive and Immersive
Systems Laboratory researchers
are developing a sort of smart
room that can understand students' words; answer their questions and perceive their gestures.
Lessons are presented as games
or tasks, like ordering a meal out.

Divekar orders Peking duck – Beijng kaoya – and the panda fetches the virtual dish. Divekar says the food was good – cai hen hao chi – but he can't pay the bill. No problem, the panda replies – ni keyi xi pan zi – you can wash the dishes.

Other scenes include an out-

door market and a garden, each a high-tech twist on cultural immersion.

"Our plan is to complete several scenes of real life in China, to let the student be able to have a virtual trip over there," says Hui Su, director of the lab at RPI.

Tests on the room with students studying Mandarin will continue this school year as they work on additional scenes, including an airport. A six-week course is being readied for next year.

Artificial intelligence, or AI, is ubiquitous in everything from call centre chatbots to home assistants. Even some language instruction products on the market feature AI or virtual reality.

The Mandarin Project is notable for its scale and sophistication. Computers simultaneously interpret speech and gesture to keep a dialogue going. When a student points to a picture and asks "What's that?" computers can come up with an answer.

And feedback is immediate. When Divekar orders dou fu – or tofu – a voice responds "here's how close you got" and illustrates it with a graph of his intonation. Another voice gives the precise pronunciation.

Still, language teachers need not fear for their jobs just yet because developers of the Mandarin Project say it isn't sophisticated enough right now to completely replace classroom instruction. – AP

LAMPIRAN 20 MALAY MAIL (WORLD): MUKA SURAT 14 TARIKH: 17 SEPTEMBER 2018 (ISNIN)

Moon seeks to break nuclear deadlock at summit

SEOUL — South Korean President Moon Jaein travels to Pyongyang this week for his third summit with Kim Jong-un, looking to break the deadlock in nuclear talks between North Korea and the United States.

Moon — whose own parents fled the North during the Korean War — flies north tomorrow for a three-day trip, following in the footsteps of his predecessors Kim Daejung in 2000 and mentor Roh Moo-hyun in 2007.

No details of the programme have been announced, but Pyongyang is likely to pull out all the stops to create a good impression, with tens of thousands of people lining the streets to welcome him.

The visit comes after the North put on its "Mass Games" propaganda display for the first time in five years,

The new show featured imagery of Kim and Moon at their first summit in April in the Demilitarised Zone that divides the peninsula — prompting the unusual sight of tens of thousands of North Koreans in the May Day Stadium applauding pictures of Seoul's leader.

One diplomatic source predicted the visit would see "Kim and Moon together receiving the same sort of applause".

But while the Panmunjom summit was high on headline-grabbing symbolism, with Moon stepping briefly into the North and the two sharing an extended one-to-one woodland chat, pressure is mounting for substantive progress.

Moon was instrumental in brokering the historic summit between US President Donald Trump and Kim in Singapore in June, when Kim backed denuclearisation of the "Korean peninsula".

But no details were agreed and Washington and Pyongyang have sparred since over what that means and how it will be achieved.

At the same time the US and South have sometimes moved at radically different speeds in their approach to the North.

Moon will try again to "play the role of facilitator or mediator", said his special adviser on foreign affairs Moon Chung-in.



"He believes that improved inter-Korean relations have some role in facilitating US-DPRK talks as well as solving the North Korean nuclear problem," he told reporters, using the North's official acronym.

Last month, Trump abruptly cancelled a planned visit by Secretary of State Mike Pompeo to Pyongyang, after the North condemned "gangster-like" demands for what it called its unilateral disammament

Washington has been adamant that the North carry out a "final, fully verified denuclearisation" first, while Pyongyang is demanding a formal declaration from the US that the Korean War is over.

But Kim has since sent Trump a letter seeking a second summit and held a military parade for his country's 70th birthday without showing off any intercontinental ballistic missiles, prompting warm tweets from the US president.

North Korea will want to exploit Trump's eagerness to declare progress before the US midterm elections in November to secure concessions, said Go Myong-hyun, an analyst at the Asan Institute of Policy Studies, and will view "eyery meeting as a viable political opportunity" towards that goal.

But whether Pyongyang is willing to offer something concrete in return has yet to be seen

Moon may try to convince the North Korean leader to verbally commit to providing a list of the country's existing nuclear programme, said Shin Beom-cheol, another analyst at the Asan Institute.

"It won't be South Korea that inspects and verifies so if we can get something out of Kim Jong-un's mouth, that will be significant." Shin said, adding the next step could be a summit between Kim and Trump sometime in October. — AFP

LAMPIRAN 21 NEW STRAITS TIMES (WORLD): MUKA SURAT 69 TARIKH: 16 SEPTEMBER 2018 (AHAD)

SATELLITE

Nasa counts down to launch of laser study of ice sheets

TAMPA: Nasa counted down yesterday to the launch of its US\$1 billion (RM4 billion) ICESat-2 mission, using advanced lasers to uncover the true depth of the melting of Earth's ice sheets.

The mission will inform sea level rise forecasts and is "exceptionally important for science", according to Richard Slonaker, ICESat-2 programme executive at Nasa.

The half-tonne satellite should reveal unprecedented detail about the current thickness of ice at the vulnerable polar regions as the climate warms.

The weather forecast was 100 per cent favourable for the 40-minute launch window opening at 8.46 am yesterday from Vandenberg Air Force Base in California.

The measurements would be "extremely precise", down to the width of a pencil, said team member Kelly Brunt.



Engineers and technicians checking the ICESat-2 satellite at the Vandenberg Air Force Base in California recently. AFP PIC

It has been nearly a decade since Nasa had a tool in orbit to measure ice sheet surface elevation across the globe.

The preceding mission, ICESat, was launched in 2003 and ended in 2009.

From it, scientists learnt that sea ice was thinning, and ice cover was disappearing from coastal areas in Greenland and Antarctics.

In the intervening nine years,

an aircraft mission, called Operation IceBridge, had flown over the Arctic and Antarctic, "taking height measurements and documenting the changing ice," NASA said.

But an update is urgently needed.

Humanity's constant reliance on fossil fuels for energy means planet-warming greenhouse gases are continuing to mount.

Global average temperatures

are climbing year after year, with four of the hottest years in modern times all taking place from 2014-2017.

lce cover is shrinking in the Arctic and Greenland, adding to sea level rise that threatens hundreds of millions of people along the coastlines.

ICESat-2 should help scientists understand just how much melting the ice sheets are contributing to sea level rise. **AFP**

LAMPIRAN 22 UTUSAN MALAYSIA (LUAR NEGARA): MUKA SURAT 12 TARIKH: 15 SEPTEMBER 2018 (SABTU)

Sistem automasi punca semakin ramai menganggur

NEW YORK 14 Sept. - Satu tinjauan terbaharu di 10 buah negara menunjukkan orang ramai bimbang sistem automasi akan menyebabkan berlakunya peningkatan kadar pengangguran yang ketara

dar pengangguran yang ketara.
Tinjauan berkenaan yang dijalankan oleh Pusat Penyelidikan Pew, mendedahkan negara-negara seperti Greece, Afrika Selatan dan Argentina menyatakan dengan yakin bahawa manusia akan menganggur disebabkan teknologi.

Majoriti besar di semua 10 negara bersetuju bahawa industri automasi 'pasti' atau 'mungkin' mencetuskan pengangguran.

Amerika Syarikat (AS) merupa-



kan negara yang mencatatkan peratusan terendah dalam tinjauan terbabit iaitu 65 peratus.

Selain itu, kebanyakan negara

juga bersetuju manusia akan berdepan kesukaran mencari peluang pekerjaan dan masalah itu semakin buruk ekoran teknologiautomasi serta kepintaran buatan (AI).

Namun, wujud persoalan sama ada automasi akan menjadikan

ekonomi lebih cekap.

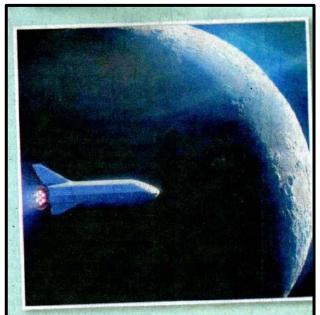
Tujuh negara dikatakan tidak bersetuju automasi bakal menjadikan ekonomi lebih cekap, dengan hanya 33 peratus rakyat Itali sahaja menerima pandangan terbabit.

Tiga negara iaitu Jepun (74 peratus), Poland (61 peratus) dan Hungary (52 peratus), bagaimanapun bersetuju dengan pandangan berkenaan.

Satu lagi persoalan yang dikemukakan dalam tinjauan tersebut ialah peranan kerajaan dalam menyediakan tenaga kerja untuk masa hadapan.

Argentina, Brazil dan Itali adalah antara negara-negara di mana lebih daripada 70 peratus menyatakan sektor awam harus mengambil tanggungjawab itu. - AFP

LAMPIRAN 23 UTUSAN MALAYSIA (LUAR NEGARA): MUKA SURAT 12 TARIKH: 15 SEPTEMBER 2018 (SABTU)



SPACEX akan membawa dua pelancong mengelilingi Bulan menggunakan BFR dalam masa terdekat. - AGENSI

SpaceX rancang hantar pelancong ke Bulan

LOS ANGELES 14 Sept. - Syarikat aeroangkasa Amerika Syarikat (AS), SpaceX mengumumkan rancangan untuk menghantar pelancong mengelilingi Bulan menggunakan Big Falcon Rocket (BFR), sebuah kenderaan yang direka untuk membawa manusia ke angkasa lepas.

"SpaceX telah mengumumkan penumpang swasta pertama untuk terbang mengelilingi Bulan dengan menaiki kenderaan BFR, langkah penting membolehkan orang awam menjelajah ke angkasa lepas," kata syarikat itu menerusi akaun Twitternya.

Bagaimanapun; SpaceX tidak memberikan butiran lanjut tetapi berkata, maklumat lanjut akan menyusul Isnin ini.

Ini bukanlah kali pertama syarikat berpangkalan di California, diketuai oleh usahawan Internet dan Ketua Pegawai Eksekutif kereta elektrik Tesla, Elon Musk, menyuarakan rancangan untuk menghantar pelancong mengelilingi Bulan.

Pada Februari tahun lalu, SpaceX mengumumSpaceX telah mengumumkan penumpang swasta pertama untuk terbang mengelilingi Bulan dengan menaiki kenderaan BFR, langkah penting membolehkan orang awam menjelajah ke angkasa lepas."

kan akan menghantar dua pelancong pertama dunia mengelilingi Bulan pada lewat 2018.

Mereka diminta menaiki kenderaan 'Dragon Crew', sama seperti kapal kargo SpaceX yang menghantar bekalan ke Stesen Angkasa Antarabangsa.

Bagaimanapun, syarikat itu tidak mendedahkan maklumat berkenaan rancangan tersebut dalam beberapa bulan kebelakangan ini.

Selain itu, nama dan identiti kedua-dua pelan-cong itu dan berapa banyak yang mereka bayar juga tidak pernah didedah-kan. - AFP

LAMPIRAN 24 NEW STRAITS TIMES (WORLD): MUKA SURAT 50 TARIKH: 15 SEPTEMBER 2018 (SABTU)

REDUCING CARBON EMISSIONS

Plan for biofuel-powered commercial flights slowly taking off

experimented with biofuels, aiming to reduce both carbon emissions and their reliance on fossil fuels. It's been a turbulent journey buffeted by inconsistent investment and the periodic lure of cheap oil.

But several major carriers are planning larger-scale usage of biofuel in the next two years, in-cluding JetBlue Airways Corp and Cathay Pacific Airways Ltd.

United Continental Holdings Inc said on Thursday it would cut

its carbon emissions by half over 2005 levels by 2050, matching an industry target set by the International Air Transport Association (IATA).

Airlines account for about two per cent of annual global carbon emissions, but the industry's rapid growth and future expansion across emerging markets has made aviation's environmental impact a top issue for exec-

utives and regulators.
"I would describe the biofuels in aviation as an evolution over

time," said Aaron Robinson, senior manager for environmental strategy and sustainability at United, which first made biofuel part of its routine operations in 2016 at the Los Angeles International Airport (LAX).

The carrier in 2015 invested US\$30 million (RM124.2 million) for a stake in Fulcrum BioEnergy Inc, which takes household solid waste and converts it to a liquid that is blended with regular jet

Beyond the supply at LAX, air-

ports in Oslo, Stockholm and Bergen, Norway, offer biofuels to blend into existing fuel supplies. As of June, more than 130,000 commercial flights have been powered by biofuel, says IATA.

The biofuel in Los Angeles, sup-plied by World Energy LLC, was refined near the airport and was "cost-competitive" with traditional fuel, said Robinson in an interview.

"Five years ago, the question was: How are we going to have enough plants to be able to do it?" he said. "Today, I think the real question is: What is the financing?

Not all of United's biofuel will

come from garbage.

Yesterday, to highlight its emissions goal, approximately 30 per cent of the fuel load on the airline's Boeing 787 flight from San Francisco to Zurich will be Carinata, a biofuel derived from a type of mustard seed, which is produced by Agrisoma Biosciences Inc of Quebec. Bloomberg

LAMPIRAN 25 BERITA HARIAN (DUNIA): MUKA SURAT 79 TARIKH: 15 SEPTEMBER 2018 (SABTU)



Nelayan Filipina membantu memyelamatkan bot di bandar Aparim wilayah Cagayan, semalam sebagai menghadapi ancaman Taufan Mangkhut.

SUSULAN TAUFAN MANGKHUT DI FILIPINA

5.2 juta penduduk berdepan ribut kuat

Manila: Lebih ramai penduduk di zon bahaya dipindahkan pihak berkuasa Filipina, semalam dan ketika sama memberi amaran 5.2 juta penduduk yang berada pada laluan 'taufan amat pemusnah' agar kekal di dalam rumah.

Segala langkah waspada diambil ketika negara di Asia Tenggara itu bersedia untuk menangani hujan lebat serta kerosakan terhadap infrastruktur dan tanaman. Taufan super Mangkhut dijangka melanda kawasan paling utara di Filipina, pagi ini dengan membawa angin kencang selaju angin 205 kilometer sejam.

Lebih 9,000 penduduk sudah dipindahkan ke beberapa pusat perlindungan sementara, ketika taufan ini atau lebih popular di kalangan penduduk tempatan sebagai 'Ompong' menuju ke wilayah pengeluar beras, Cagayan dan Isabela di mana ia dijangka tiba ke darat.

Pegawai bencana memberi amaran bahawa puluhan ribu penduduk mungkin perlu dipindahkan dan peramal cuaca memberi amaran air pasang ribut setinggi enam meter di beberapa kampung pesisir di laluan taufan itu.

Tanaman musnah

Difahamkan, kontingen kedua dan ketiga pasukan penyelamat sedang disiapkan, jika pasukan penyelamat pertama berdepan masalah.

Datuk Bandar Cagayan, Manuel Mamba berkata, beliau menjangkakan banyak tanaman dan kemudahan musnah di wilayah itu. Katanya, mungkin bantuan diperlukan untuk pembinaan semula.

"Kali terakhir kita dilanda taufan super, lebih 14,000 rumah musnah dan kira-kira lebih 40,000 rosak," katanya kepada saluran berita ANC. **REUTERS**

LAMPIRAN 26 THE STAR (WORLD): MUKA SURAT 27 TARIKH: 15 SEPTEMBER 2018 (SABTU)

Countries ramp up climate goals

Bear-y big attraction A man looking up at a polar bear statue made out of car hoods in front of the Ferry Building during the Global Climate Action Summit in San Francisco. - AFP



Dozens of leaders make 'zero' pledges at summit

SAN FRANCISCO: Zero fossil fuel energy, zero gas guzzlers on the road, zero waste, zero CO2 emissions – dozens of cities, regions and companies made "zero" pledges at a global climate summit in San

Mayors, governors and chief executive officers from around the world have stepped into the climate breach with concrete action as UN breach with concrete action as UN talks to implement the Paris climate treaty falter, and President Donald Trump dismandles US policies to curb greenhouse gas emissions.

Global warming continues to

gather pace: major storms bearing down on the US eastern seaboard and the Philippines, and wildfires ravaging California, bear the unmis-takable fingerprint of climate change, scientists say.

This is real and we will take

action, even if Washington doesn't," said Los Angeles mayor Eric Garcetti.

Jointly organised by California governor Jerry Brown and former New York mayor Michael Bloom-berg, the three-day gathering is a showcase for initiatives to reduce

humanity's carbon footprint.

Many centre on switching from cars and trucks powered by planetwarming fossil fuels to electric vehi-

On Thursday, dozens of states, regions and major cities committed to allowing only zero-emission cars, buses and trucks on their roads within a few decades.

Tokyo, Seoul and Rotterdam joined Paris, London, Barcelona and Mexico City in vowing to run only electric buses by 2025.

Even a decade ago, such commit-ments would have seemed unthink-

able, said Nicholas Stern, who heads the Grantham Research Institute on Climate Change and the Environ-ment in London.
"Who would have thought that

the heads of major car companies would all be agreeing that the era of the internal combustion engine is

coming to an end," he said. In the United States, vehicle emissions are the single largest source of greenhouse gases. Electricity grids around the world

are also purging fossil fuel-based energy.

Brown signed legislation this

Brown signed legislation this week committing California – the fifth largest economy in the world – to 100% clean electricity by 2045. He also penned an executive order mandating net-zero carbon emissions throughout the state's economy by 2045. — AFP



Safe indoors: Children playing in a classroom used as an evacuation centre in Tuguegarao, Cagayan province. -



Every measure counts: A man reinforcing the roof of his house with heavy tyres in Manila. -