

**LAMPIRAN 1**  
**THE STAR (STAR METRO) : MUKA SURAT 7**  
**TARIKH : 18 MEI 2018 (JUMAAT)**

By RUBY LIM  
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THE Petrosains Science Show Competition returns for its 10th edition, in search of "science superstars" among secondary school students nationwide.

An initiative by Petrosains, The Discovery Centre, the competition aims to popularise science and promote exciting and effective learning methods for students.

Speaking at the launch in Menara Bank Islam, Kuala Lumpur, Petrosains chief executive officer Tengku Nasariah Tengku Syed Ibrahim said the competition was a unique programme that combines science and the performing arts.

"This competition enables students to deepen their understanding and interest in science in an immersive way."

"While developing skills such as communication and public speaking, it will also help students build up their self-confidence."

"Petrosains hopes that by organising activities such as this competition, we are supporting the Government in producing and moulding the future generation who will not only be scientifically literate and critical thinkers, but are confident and intelligent to lead the nation and advance society in the future," she said.

The competition is supported by the Education Ministry's Co-Curricular and Arts Division with Bank Islam as financial sponsor. Bank Islam is providing financial sponsorship of RM600,000 for the Petrosains Science Show Competition 2018 and Visit-to-School programme.

Bank Islam Malaysia Bhd chief executive officer Khairul Kamarudin said: "Bank Islam has supported the Petrosains Science Show Competition since 2015 and contributing RM500,000 every year until 2016."

"In 2017, we increased the sponsorship amount to RM600,000 due to the impact the competition had on students and to enhance the quality of the competition to expose them to the latest technology."

He added that the bank's total sponsorship amounted to RM2.2mil to-date.

The competition is open to all secondary schools in Malaysia with unlimited number of participations.

There are three levels – selection, state and final.

Participants are required to present a scientific concept and carry out an experiment or demonstration to illustrate the concept in a 15-minute stage performance either individually or in teams of two.

# Search on for 'science superstars' among students

Free trip to Beijing museum and cash prizes up for grabs in contest



The top 10 teams will compete in their respective states and the finals will see eight state winners vying for the grand prize in October.

More than RM40,000 cash prizes and a grand prize of an all-expense-paid trip for four to China Science Technology Museum in Beijing, China, worth RM30,000 are up for grabs.

In addition, a cash award of RM5,000 will be presented to the school with the highest number of submissions for the purchase of learning and educational equipment.

Also, the competition will be recorded into an entertaining and educational television programme, to be aired on Astro TVIQ channel 610.

The closing date for entry submissions is May 31.

For details and entry forms, go to [www.petrosains.com.my/science-show-competition/](http://www.petrosains.com.my/science-show-competition/)

(Centre, from left) Bank Islam Malaysia Berhad chief executive officer Khairul Kamarudin, Education Ministry co-curricular and arts division assistant director Norhayati Mustafa and Petrosains chief executive officer Tengku Nasariah Tengku Syed Ibrahim launching the Petrosains Science Show Competition 2018 at Menara Bank Islam. With them are students from SMK Puteri Ampang.

**LAMPIRAN 2**  
**SINAR HARIAN (BISNES) : MUKA SURAT 41**  
**TARIKH : 18 MEI 2018 (JUMAAT)**

## **Petrosains mentor rasmi**

*MaGIC, Petrosains,  
SEAM meterai  
perjanjian*

**M**alaysian Global Innovation & Creativity Centre (MaGIC) menandatangani dua perjanjian persefahaman (MoU) dengan Social Enterprise Academy Malaysia (SFAM) dan Petrosains Sdn Bhd yang merupakan pendukung perniagaan sosial di Malaysia.

Ketua Pegawai Eksekutif MaGIC, Ashran Ghazi berkata, fokus utama kerjasama untuk mencipta lebih nilai dalam keusahawanan berpandukan impak dengan menyediakan akses kepada Perniagaan Berpandukan Impak (IDE) yang ingin memasarkan produk mereka di Xplorasi iaitu kedai cenderahati



Dua dari kiri. Ketua Pegawai Eksekutif Petrosains, Tengku Nasariah Tengku Syed Ibrahim, Ashran dan Pengarah Urusan Seam, Sam Baumber pada majlis menandatangi MoU.

Petrosains dan kedai cenderahati Menara Berkembar Petronas.

"Setiap IDE ini menjana impak dalam komuniti secara aktif dan bekerjasama bersama sektor awam dan swasta.

"Kerjasama dengan Petrosains akan menambah sokongan kepada IDE dan dari sudut Sains, Teknologi,



Kejuruteraan dan Matematik (STEM," kata-

nya pada majlis me-

ndatangani

MoU antara MaGIC, Petrosains dan Social Enterprise Academy International sempena pelancaran IDEA Accelerator.

Katanya, perjanjian itu akan menjadikan Petrosains sebagai mentor rasmi, rakan kongsi dan pelatih bagi Program Impact Driven Enterprise Accreditation (IDEA).

"Sebagai pendorong utama dalam usaha negara untuk memupuk sektor berpandukan impak, MaGIC telah memperkenalkan pelbagai inisiatif yang dirangka bagi menyokong aspirasi nasional, termasuk program utama kami iaitu IDEA yang dilancarkan pada 2017," kata-

Dalam pada itu MaGIC dan SEAM akan bekerjasama dalam menyediakan kandungan pembelajaran dan pembangunan berkualiti yang disasarkan kepada usahawan sosial di Malaysia dan di rantau ini.

## LAMPIRAN 3

### THE STAR (STAR METRO) : MUKA SURAT 9

### TARIKH : 18 MEI 2018 (JUMAAT)

By RAJESWARI KANDIAH  
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**TECHNOLOGY**, which is constantly advancing at a rapid pace, has changed the way people lead their lives.

For many, it has become simpler, thanks to devices and appliances that help them save time and which offer convenience.

To this end, LG Electronics Inc's new LG Science Park in Magok district in Seoul, South Korea, is where LG's innovations take flight and where it seamlessly integrates Artificial Intelligence (AI) into a wide range of its LG ThinQ devices and appliances to provide new levels of convenience.

One such product is the InstaView Door-in-Door refrigerator showcased at InnoFest 2018 Asia held at the Science Park there.

It is part of LG's ThinQ series that groups together premium appliances and consumer electronics under one banner. ThinQ products use artificial intelligence.

Imagine, with this refrigerator, consumers need no longer worry about forgetting to clear expired items. Why and how one may ask? Well, it comes with inbuilt artificial intelligence (AI) and will send reminders when cleaning is needed or due.

The InstaView Door-in-Door refrigerators come with revolutionary glass panel and ground-breaking knock-on feature. With a sleek black stainless steel design, this new addition adds a touch of elegance to every kitchen.

With just two knocks, the refrigerator's smooth glass panel will illuminate the interior for users to scan the contents for faster and easier access to their favourite drinks and snacks.

This distinctive feature offers an energy-efficient and comfortable way to look inside without opening the appliance door, leading to less cold air escaping and ensuring fresher food.

Through LG's Smart ThinQ, users can remotely control their refrigerator with their smartphone, enabling them to set the refrigerator temperature and diagnose appliance problems from the connected application.

LG also unveiled other products at the fest that focused on positioning it as a leading consumer brand and offer consumers the newest range of products for life-changing experiences and an innovative life.

## Smart tech for smart living

S. Korean multinational electronics company gains ground with artificial intelligence products



LG's business partners taking in the details on the OLED TV at the festival.



Kong (left) and Kim (right) at InnoFest 2018 in Seoul.

The fest was organised by LG Electronics Inc, a South Korean multinational electronics company, which is positive consumers will benefit from its AI enabled items.

Another convenience is the washing machine.

The various models and capacities of TWINWash cater to Asian consumers no matter what size and type of residential space.

The TWINWash even offers

minimal clothing damage while both maximising washing capability and reducing laundry time, redefining the laundry experience for consumers.

It maximises user convenience by making it possible to wash two loads of laundry at once.

Apart from a powerful main front load washer and convenient mini washer, the appliance comes with LG's efficient Eco-Hybrid dryer function which provides consumers with an all-in-one solution as well as a washer and dryer that meets their everyday laundry needs.

Fully aware of the desire of consumers to get the most out of their dryers, LG has developed dryers that protect clothing while consuming less energy.

The dryer, with industry-leading dual Inverter Heat Pump has a stellar energy efficiency based on a model test conducted in the European market.



(Left and right) LG's various washing machine models and capacities of TWINWash cater to Asian consumers. (Middle) The InstaView Door-in-Door refrigerators come with revolutionary glass panel and ground-breaking knock-on feature.

leaving no gap between the TV and wall for that seamless effect.

Designed with the concept of Picture-on-Wall, the idea is to create the illusion of gazing out of a window and adds to the aesthetics of the room it is placed in.

LG Electronics (M) Sdn Bhd general manager (marketing) Kong Mun Keen, who was present at the festival, said the TV actually has the flexibility of bending slightly – though the TV is not actually designed to be bent or rolled.

"As the name suggests, it uses organic light-emitting diode (OLED) panels, so light is generated on its own. This eliminates the need for a backlight to illuminate the panel, enhancing picture quality and colour consistency," he said.

Kong said televisions were among their products that were popular in Malaysia, adding that the brand was all set to position itself as a leading consumer brand and enable consumers to lead a hassle-free lifestyle.

"They can then truly say 'life's good'!"

LG's Inverter, meanwhile, is an energy-efficient device serving as the brain that pilots the motor and compressor installed in all LG home appliances including washers, air conditioners, air purifiers, refrigerators and dishwashers.

This serves as the catalyst for higher energy efficiency and better freshness, cleanliness and cooling performances by LG appliances.

In addition, products equipped with the Inverter show high reliability, thanks to a 10-year warranty.

The company itself conducts R&D and manufacturing of this key appliance component for the Inverter to help LG consistently lead the market through innovative and cutting-edge products.

With the launch of all these new products and more, Kim said the group planned to achieve another double digit growth in revenue this year.

The brand's business partners and media members were also present at InnoFest 2018 Asia.

**LAMPIRAN 4**  
**NEW STRAITS TIMES (OPINION) : MUKA SURAT 15**  
**TARIKH : 18 MEI 2018 (JUMAAT)**



Poverty

SHAMSHAD  
AKHTAR

## FIGHTING INEQUALITY IN ASIA AND THE PACIFIC

Increasing investment in education is fundamental to both development and equality

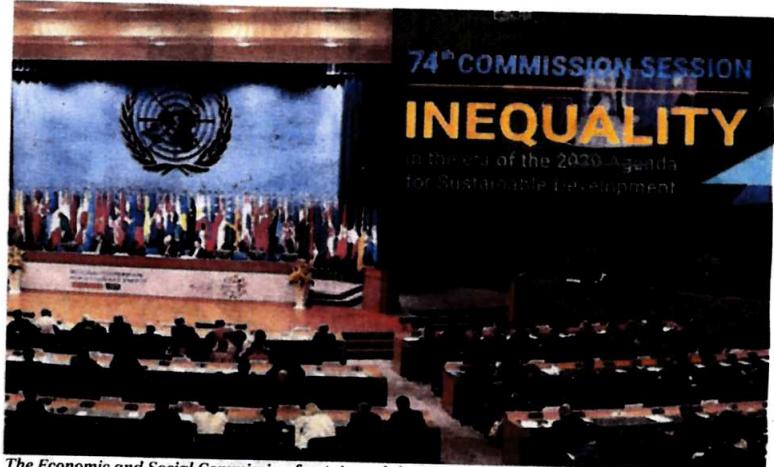
**I**NEQUALITY is increasing in Asia and the Pacific. Our region's remarkable economic success story belies a widening gap between rich and poor. A gap that is trapping people in poverty and, if not tackled urgently, could thwart our ambition to achieve sustainable development.

This is the central challenge heads of state and governments will be considering this week at the Economic and Social Commission for Asia and the Pacific (Escar). A strengthened regional approach to more sustainable, inclusive growth must be this Commission's outcome.

It is imperative, because Escap's Sustainable Development Goal (SDG) Progress Report shows that, at the current rate of progress, Asia and the Pacific will fall short of achieving the United Nations's 2030 Agenda. There has been some welcome progress, including in some of the least developed countries of our region. Healthier lives are being led and wellbeing has increased. Poverty levels are declining, albeit too slowly. But only one SDG, focused on achieving quality education and lifelong learning, is on track to be met.

In several critical areas, the region is heading in the wrong direction. Environmental stewardship has fallen seriously short. The health of our oceans has deteriorated since 2015. On land, our ecosystems' biodiversity is threatened. Forest conservation and the protection of natural habitats has weakened. Greenhouse gas emissions are too high.

But, it is the widening inequalities during a period of robust growth that are particularly striking. Wealth has become increasingly concentrated. Inequalities have increased both within and between countries. Over 30 years, the Gini coefficient increased in four of our most populous coun-



The Economic and Social Commission for Asia and the Pacific's 74th session in Bangkok, Thailand.

tries, home to over 70 per cent of the region's population.

Human, societal and economic costs are real. Had income inequality not increased over the past decade, close to 140 million more people could have been lifted out of poverty. More women would have had the opportunity to attend school and complete their secondary education.

Access to healthcare, to basic sanitation or even bank accounts would have been denied to fewer citizens. Fewer people would have died from diseases caused by the fuels they cook with. Natural disasters would have wrought less havoc on the most vulnerable.

The uncomfortable truth is that inequality runs deep in many parts of Asia and the Pacific. There is no silver bullet, no handy lever we can reach for to reduce it overnight. But an integrated, co-ordinated approach can over time return our economies and our societies to a sustainable footing. Recent Escap analysis provides recommendations on how to do just that.

At their heart is a call invest in our people: to improve access to healthcare and education. Only a healthy population can study, work and become more prosperous. The universal basic healthcare schemes established by Bhutan and Thailand are success stories to build on. Expanding social protec-

tion to low-income families through cash transfers can also help underpin a healthy society.

Increasing investment in education is fundamental to development and equality. Here the key to success is making secondary education genuinely accessible and affordable, including for those living in rural areas.

Where universal access has been achieved, the focus must be on improving quality. This means upskilling teachers and improving curricula, and tailoring education to future labour markets and new technologies.

Equipping people to exploit frontier technologies is becoming more important by the minute. Information and Communication Technology (ICT) is a rapidly expanding sector. It can quicken the pace of development. But, it is also creating a digital divide which must be bridged. So investment in ICT infrastructure is key, to support innovative technologies and ensure no one is left behind. Put simply, we need better broadband access across our region. Geography cannot determine opportunity.

This is also true when it comes to tackling climate change, disasters and environmental degradation. We know these hazards are pushing people back into poverty and can entrench inequality.

In response, we need investment to help people to adapt in the region's disaster hotspots; targeted policies to mitigate the impacts of environmental degradation on those most vulnerable, particularly air pollution. Better urban planning, regular school health check-ups in poorer neighbourhoods, and legislation guaranteeing the right to a clean, safe and healthy environment in to constitutions should be part of our response.

The robust growth Asia and the Pacific continues to enjoy, gives us an opportunity to take decisive action across all these areas. But for this to happen, fiscal policy needs to be adjusted. More effective taxation systems would increase the tax take, and better governance would increase people's willingness to contribute. Public expenditure could then be made more efficient and progressive, the proceeds of growth shared more widely, and inequalities reduced.

My hope is that leaders will seize the moment, strengthen their commitment to fighting inequality on all fronts and put us back on track to sustainable development in Asia and the Pacific.

The writer is the under-secretary-general of the United Nations and executive secretary of Escap

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**LAMPIRAN 5**  
**SINAR HARIAN (CETUSAN) : MUKA SURAT 50**  
**TARIKH : 18 MEI 2018 (JUMAAT)**

*CETUSAN*



## Face ID kegilaan telefon bimbit

Ilmu Kejuruteraan  
dari al-quran

DR MUHDIN ARIFIN



**F**ACE Identification dan Touch ID Fingerprint adalah contoh aplikasi teknologi kata laluan keselamatan dan pengesahan telefon bimbit masa kini. Aplikasi ini menjadi buruan pengguna generasi sekaran. Pembuat telefon bimbit berlumba-lumba mengaplikasikan pelbagai teknik kata laluan keselamatan dalam telefon bimbit sebagai teknik terbaik untuk menambat hati pelanggan.

Teknologi Aplikasi Pengesahan Komputer (CAAT) adalah sistem keselamatan dan pengenalan diri terbaru melalui pancaindera muka dan jari atau dikenali biometrik. Teknologi ini sebahagian daripada Enjin Saraf A11 Bionic yang dilindungi dalam Secure Enclave System - untuk mengubah pemetaan dalam serta imej infra merah ke dalam model persamaan mate-

matik dan membandingkan persamaan tersebut dengan data wajah seseorang yang didaftarkan dalam sistem data telefon bimbit.

Kejayaan pengaplikasian CAAT ini membuktikan setiap orang mempunyai identiti muka dan cetakan jari yang berbeza. Cap jari ditakrifkan oleh *American Heritage Medical Dictionary* sebagai kesan dakwat pada permukaan lengkung yang dibentuk rabung pada hujung jari dan daripada kaedah analistik mampu membuat perbezaan di antara sebatian yang serupa bagi mengenali ciri serta identiti seseorang.

Perkara ini telah dijelaskan ALLAH SWT dalam *Surah An-Nur* [24:24-25]: "Pada hari (ketika) lidah, tangan dan kaki mereka menjadi saksi atas mereka terhadap apapun yang dahlui mereka kerjakan; Pada hari itu, ALLAH akan memberi mereka balasan yang setimpal menurut semestinya, dan tahlul mereka bahawa ALLAHlah Yang Benar, lagi Yang menjelaskan (segala sesuatu menurut hakikat yang sebenarnya)." Para saintis telah memulakan kajian tentang cap jari ini pada awal abad ke-16 dan pada 1859, Ketua Majistret Daerah Jungipoor, India, Sir William James Herschel telah mengesahkan bahawa cap jari stabil boleh dijadikan pengenal individu menutupi kainnya ke seluruh tubuh mereka. Yang demikian itu supaya mereka lebih mudah untuk dikenal kerana itu mereka tidak diganggu. Dan ALLAH adalah Maha Pengampun lagi Maha Penyayang."

Beberapa tahun yang lalu, pakar

ALLAH juga menegaskan bahawa anggota badan adalah identiti setiap orang sebagaimana dijelaskan dalam *Surah Yassin* [36:65]: "Pada hari ini Kami tutup mulut mereka; dan berkatalah kepada Kami tangan mereka dan memberi kesaksianlah kaki mereka terhadap apa yang dulu mereka usahakan."

Para saintis telah memulakan kajian tentang cap jari ini pada awal abad ke-16 dan pada 1859, Ketua Majistret Daerah Jungipoor, India, Sir William James Herschel telah mengesahkan bahawa cap jari stabil boleh dijadikan pengenal individu menutupi kainnya ke seluruh tubuh mereka. Yang demikian itu supaya mereka lebih mudah untuk dikenal kerana itu mereka tidak diganggu. Dan ALLAH adalah Maha Pengampun lagi Maha Penyayang."

Dalam ayat ini, ALLAH menegaskan supaya kita menutupi seluruh anggota badan kecuali muka dan tapak tangan terutamanya wanita sama ada secara 'terus' atau 'sosial media' bagi mengelakkan berlaku sumbang mahram, segala perkara maksiat dan kejahanan un-

tu k juga keharmonian masyarakat. Injil juga ada kaitan dengan anggota badan yang wajib dibasuh ketika berwuduk sebelum bersolat sebagaimana dijelaskan dalam *Surah Al-Maidah* [5:6] yang bermaksud: "Hai orang-orang yang beriman, apabila kamu hendak mengerjakan solat, maka basuhlah mukamu dan tangamu sampai dengan siku, dan sapulih kepalamu dan (basuh) kakimu sampai dengan kedua buku lali kaki... dan menyempurnakan nikmat-Nya bagi-mu, supaya kamu bersyukur."

Ayat-ayat di atas bermaksud se-gala apa yang kita lakukan di dunia ini akan diperhitungkan oleh ALLAH pada hari akhirat yang mana anggota badan menjadi saksinya. Tetapi, di sebaliknya ia ada maksud tersirat untuk kebaikan semua makluk-Nya di dunia dan selepasnya.

\*Prof Madya Dr Ir Muhdin Arifin  
Pengarah Institut Kejuruteraan  
Sukan Pusat Kecemerlangan Universiti  
Selangor

## Meletak kereta guna alat kawalan jauh

**LONDON 17 Mei** – Pengguna di negara ini bakal menikmati kemudahan meletakkan kereta dalam petak yang disediakan dengan hanya menggunakan aplikasi pada telefon pintar dan kunci kereta bermula bulan hadapan.

Langkah itu selaras dengan undang-undang baharu yang diperkenalkan oleh Britain dalam usaha terkini untuk beralih kepada kereta tanpa pemandu dan digerak menggunakan aplikasi.

Ahli politik Britain dilaporkan berusaha untuk menguji dan menggunakan teknologi pemanduan terbaharu itu secara mudah.

Malahan, mereka juga sedang cuba membangunkan industri untuk pasaran di seluruh dunia yang dijangka bernilai kira-kira AS\$1.2 trillion (RM4.8 trillion) menjelang 2025.

Kereta yang dilengkapi dengan sensor ultrasonik dan perisian automatik dapat melakukan tugas masuk ke dalam petak parkir secara selari dan bersiri dengan hanya menyentuh satu butang manakala pemandunya berdiri di luar kenderaan berkenaan.

Kerajaan Britain berharap teknologi terbaharu itu akan memu-



**BRITAIN** memperkenalkan teknologi memudahkan pengguna meletak kereta dalam petak parkir menggunakan kunci kereta dan aplikasi pada telefon pintar. – AGENSI

dahkan kereta diparkir di ruang yang sempit dan komputer dapat meningkatkan tahap ketepatan.

Selain itu, ia juga membolehkan kerajaan Britain untuk meneliti langkah lain bagi memperkenalkan teknologi automatik di jalan raya negara ini.

“Kami akan mengkaji semula undang-undang memandu untuk memastikan pemandu da-

pat menikmati potensi teknologi berkenaan dengan selamat,” kata Menteri Pengangkutan Muda, Jesse Norman.

Para menteri berharap dapat melihat kereta tanpa pemandu sepenuhnya di atas jalan raya Britain pada 2021 dan sejumlah pengeluar kenderaan seperti Jaguar, Land Rover dan Nissan sudah pun menjalankan ujian. – REUTERS