

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

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LAMPIRAN 1
 NEWS STRAITS TIMES (LETTERS): MUKA SURAT 45
 TARIKH: 7 JUN 2019 (JUMAAT)

PLASTIC WASTE

Govt's battle with plastics won't end soon

THE habit of using plastic is hard to break, but we can learn from some individuals, groups and the government.

Since the implementation of the "no plastic bags" policy and charging 20 sen for them, the culture of taking along recyclable bags has been promoted.

With the participation of food and beverage outlets in the plastic straw ban, the government aims to fully enforce the ban by 2020.

In recent months, Malaysia and the Philippines have made their stand on rejecting plastic waste and sending it back to the countries of origin.

Energy, Science, Technology, Environment and Climate Change Minister Yeo Bee Yin announced that 3,300 tonnes of trash would be returned to 10 countries, including the United States, Canada, the United Kingdom and China.

It shows that the battle be-

tween the government and plastics is not ending soon.

Malaysia appears to have taken on the role of plastics importer following the plastics ban in China last year.

A Greenpeace report showed that from January to July last year, plastic waste imports in Malaysia amounted to 754,000 metric tonnes, which are equivalent to 100,000 adult elephants.

However, this problem is more than a country's issue. It involves the trade ecosystem and countries need to learn how to deal with their waste rather than exporting it to other countries.

More initiatives could be taken to resolve the issue of waste disposal. Housing and Local Government Minister Zuraida Kamaruddin says Malaysians have yet to cultivate garbage disposal habits, which should be addressed to keep our country clean:



Reducing single-use plastics creates a cleaner environment. FILE PIC

Workshops and campaigns have been conducted to raise awareness about how to dispose of waste. However, some people refuse to follow the rules. It was found that 60 per cent of the 32 million population do not throw garbage into rubbish bins.

Some dump rubbish bags right below the "Jangan Membuang Sampah Disini" signs, while others throw plastic cups and trash out of cars.

Like some countries, are they also passing their trash to others?

To complement the measures taken by the government to address plastic waste disposal, people must step up efforts to reduce single-use plastics.

ALEXANDER GOH
 Kuala Lumpur



LAMPIRAN 2
THE STAR (NATION): MUKA SURAT 14
TARIKH: 7 JUN 2019 (JUMAAT)

Too early to ascertain what happened, says Phee



Cause for concern: Fish farmers scooping up dead grouper at a farm in Teluk Bahang.

GEORGE TOWN: It remains uncertain whether the fish at the Teluk Bahang farms died of metal poisoning as this is only confined to the grouper or locally known as kerapu, according to the exco member in charge.

State Environment Committee chairman Phee Boon Poh said it was too early to ascertain what happened at the fish farms.

"We have yet to address the question as to why only the kerapu died at the fish farms, and why the other fish species did not.

"There are many issues which need to be addressed over the metal poisoning in the Teluk Bahang coast.

"All departments, mainly the Fisheries Department and Department of Environment, are doing a meticulous analysis of every aspect," he said when contacted yesterday.

The Star reported on the death of thousands of grouper in Teluk Bahang on May 28, with fishermen complaining that their livelihood had been affected.

The Centre for Marine and Coastal Studies (Cemacs) reported a 1,000% spike in nickel

level near the National Park off the Teluk Bahang coast.

The centre reported that the nickel level was 1,038% more than it should be there, and 982% higher at the Teluk Bahang fish farms.

Phee said the analysis on the samples of fish, water and chemical used by fish farms would take a few months for the relevant departments to come up with the full results.

"Cemacs is also helping in the research and analysis of samples as we want to do a thorough job," he said.

On the forming of a task force to look into the metal poisoning, Phee said approvals were needed from the relevant departments and state executive council and this would be done as soon as possible.

"The task force will not be only confined to metal poisoning but also look at an overall solution of the issue, from the causes right up to what can be done to prevent a recurrence.

"The findings will be used as a standard operating procedure to troubleshoot any future sea pollution issue," he said.

LAMPIRAN 3
THE STAR (NATION): MUKA SURAT 8
TARIKH: 7 JUN 2019 (JUMAAT)

It's so unpredictable now

Bad weather may affect back-to-city driving conditions

By **CLARISSA CHUNG**
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PETALING JAYA: While Malaysians are preparing to return to the cities after the Hari Raya break and school holidays, the heavy thunderstorms and rain may make for less-than-ideal conditions for travellers on the road.

According to the myCuaca app by the Malaysian Meteorological Department, Kuala Lumpur is forecast to have no rain on Friday, but will have thunderstorms on Saturday and Sunday.

Places such as Penang, Muar and Ipoh are expected to face thunderstorms from Friday all through the weekend, with temperatures between 24°C and 34°C.

Other locations like Kota Baru, Kuala Terengganu and Seremban are forecast to have drier weather, though they may face the occasional thunderstorms.

In Sabah, places like Kota Kinabalu, Sandakan and Lahad Datu are expected to have isolated rain over the next few days.

Certain areas in Sarawak, such as Kuching, Miri and Sibu are forecast to face isolated rain and thunderstorms over the weekend.

As such, road safety cannot be compromised, especially as traffic on major highways and roads is expected to swell to high volumes during the Hari Raya season.

Kuala Lumpur Traffic Investigation and Enforcement Department chief Asst Comm Zulkefly Yahya advised road users to be careful when driving in wet conditions.

Based on records, the police

Tips for driving in WET WEATHER

- Make sure** you have firm brakes, streak-free windshield wipers and tyres are inflated and have good treads.
- Use your defogger. If glass gets foggy, **open a window slightly or turn up defogger fan.**
- Avoid cruise control** when it is raining.
- Slow down to reduce chances of hydroplaning**, which is when tyres rise up on a film of water.
- Allow ample stopping distance** with the vehicle in front of you.
- Don't panic** when your car skids, **avoid slamming on the brakes.**
- When car begins to skid, **continue to look and steer** in the direction in which you want the car to go.
- When **visibility is too limited**, **pull off vehicle** from the road and wait for rain to ease up.

Source: American Automobile Association (AAA)

found the number of accidents rose when there is rain.

This is because the rain can lead to limited visibility and the wet surface of roads can reduce the grip of car tyres.

He said the second phase of *Ops Selamat 15* started yesterday.

Malaysian Institute of Road Safety Research (Miros) director-general Dr Siti Zaharah Ishak said for the Hari Raya season last year, the traffic volume was estimated to have increased by 36% compared to non-festive periods.

"Based on crash statistics from

the Royal Malaysia Police, the causes of road accidents are similar to those during the non-festive season.

"However, during the festive season, we can see a high number of road accidents occurring on federal roads and involving head-on crashes," she said.

She said the majority of traffic collisions in the country were due to human fault (80%), conditions of the road and its environment (13%) and vehicle defect (7%).

The top three human errors

are dangerous turning, careless driving and speeding.

Dr Siti Zaharah urged travellers to remain vigilant when on the road by ensuring their vehicles were properly maintained and serviced, and use seatbelts and traffic signals.

She also cautioned road users of the dangers of microsleep, which is a brief episode of sleep that usually occurs when one is tired but still wants to keep awake.

According to Miros research in 2011, she said about 54% of drivers studied admitted to have at least once been involved in a road accident after drifting off to sleep.

The study also showed that 61% of drivers reported that they almost got into an accident because they were sleepy.

"If you feel that you are losing focus while driving, it is better to stop and rest in a safe area as soon as possible," she said, adding that a power nap of between 10 minutes and 20 minutes would be optimal.

The Road Transport Department (JPJ) is also encouraging members of the public to send complaints via WhatsApp to clamp down on traffic offences, especially during the Raya holidays.

Passengers can take photos or videos of errant road users and lodge their complaints via WhatsApp to 013-449 8997.

JPJ director-general Datuk Seri Shaharuddin Khalid on June 3 was reported as saying that his department had already issued more than 200 notices based on WhatsApp complaints for its Hari Raya operation beginning May 29.

LAMPIRAN 4
THE STAR (NATION): MUKA SURAT 8
TARIKH: 7 JUN 2019 (JUMAAT)

Expert: Seek proper shelter during storms

PETALING JAYA: As thunderstorms occur frequently these days, lightning protection expert Hartono Zainal Abidin advises people to be extra vigilant.

“Seek shelter as soon as you see dark clouds, lightning or hear thunder. Take shelter in a large building, inside your vehicle or under large structures such as a bridge.

“Stay inside the shelter for at least 30 minutes after the last thunder is heard,” he said.

To avoid getting struck by lightning out in the open, Hartono advised people to get their clothes wet if it rains as wet clothing would help reduce serious injuries if lightning strikes.

A lightning defensive position, he said, would also help.

“Squat down with your feet together and close your ears with your hands. Do not lie down,” he said.

He added that high points such as a hill top must be avoided, and that people should not take shelter under a tree, a small shed or a roadside food stall.

“For small shelters, ensure they have been installed with a proper lightning protection system before you take shelter there,” he said.

On the recent case of a couple and their son being killed in a lightning strike, he said the lightning could have struck the goat shed they were in.

“The victims were in a goat shed, and it was probably a small structure with an asbestos or corrugated metal roof supported on wooden poles.

“The victims were probably struck either by the main lightning bolt which sliced through the asbestos roof or were struck by secondary flashes since they were the tallest objects under the metal roof.

“Any person or animal standing on the ground nearby will feel a current flowing between their legs. This can also be fatal for some four-footed animals,” he said.



LAMPIRAN 5
THE STAR (NATION): MUKA SURAT 8
TARIKH: 7 JUN 2019 (JUMAAT)

Sudden floods catch many by surprise in S'wak

MIRI: The severity of sudden floods in interior northern and central Sarawak took many of the native folk by surprise.

All it took was a few hours of incessant rain for the rivers to break their banks.

"The floods happened very quickly and people in the riverine settlements were caught unprepared," said Belaga native Abun Sui.

Sui added that he was in Belaga for the Gawai festival when floods inundated the Long Busang settlement.

The devastating floods over the past two days in northern and central Sarawak caused widespread damage.

At the Long Busang settlement in the Belaga district, about 500km south of Miri, many houses were toppled and other properties damaged.

Long Busang is located in the vast Hulu Rejang parliamentary constituency.

Sui said the 1,000-plus folk in Long Busang saw floods reach about five metres at one point.

"They need help to recover from this disaster," said the PKR Hulu Rejang branch chief.

The State Disaster Relief Committee is coordinating the deployment of emergency food aid from Belaga town to Long Busang, which takes three hours by river.

Consignments of food and drinking water are being sent to the flood victims who have



Badly damaged: Several houses that were toppled in Long Busang due to the sudden floods.

been relocated to higher ground.

Committee secretariat chief Mejar Ismail Mahedin said numerous agencies were handling the food aid relief operation.

In interior northern Sarawak, the flood-hit districts of Baram and Tinjar are also seeing relief operations being carried out.

Long Loyang in Baram is the worst hit, with Ulu Teru in Tinjar badly affected.

The state Fire and Rescue Department in its

latest updates said the floods in the northern districts were showing signs of receding.

However, folk in the longhouses have not been evacuated. They have only been moved to the upper floor of the longhouses.

Watch the video
thestartv.com



Dear time

LAMPIRAN 6
THE STAR (EVENTS): MUKA SURAT 15
TARIKH: 7 JUN 2019 (JUMAAT)

Rethinking our usage of plastic

Campaign delivers anti-sea pollution message in fun and creative way

By N. TRISHA
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A LARGE crowd learned more about the dangerous effects of plastic waste during the Un-Plastic Campaign at Occupy Beach Street in George Town, Penang.

The campaign saw students from Wisdom Shine Educare walking around as human billboards, showing items that can and cannot be recycled.

A total of 20 booths were also set up to educate the public.

At one booth, visitors could see, through a microscope, tiny plastic bits (less than 5mm in size) in zooplankton which are important organisms in the food chain.

There were also interactive waste segregation games, video sharing sessions and a jumble sale to promote environmental awareness.

The event was organised by Wisdom Shine Educare with support from the state government and Universiti Sains Malaysia's Centre for Marine and Coastal Studies (Cemacs).

Wisdom Shine Educare principal Rachel Ng said they wanted to create awareness of the harmful effects of plastic waste and sea pollution.

"I hope our message will reach the people and they will be more mindful when using single-use plastic," she said.

Pengkalan Kota assemblyman Daniel Gooi praised the organiser for its effort to reach out to the masses.

Komtar assemblyman Teh Lai Heng, who was also present at the campaign, said there was a need to create awareness of the three R's - reduce, reuse and recycle.

"Programmes like this can educate the public in a fun way.

"Microplastics, especially, have affected the ocean.

"Recently, plastic waste has been found in the deep sea.

"This is an extremely bad sign as it shows the impact of plastic waste all over the earth," he said.



Ch'ng Ghee Thye (in red) and his wife He Kae Yeng learning about recyclable items from volunteers at the Un-Plastic Campaign at the Occupy Beach Street in George Town. — Photos: LIM BENG TATT/ The Star



Artworks showing microplastics inside the guts of fish.



Children making decorative pieces out of single-use plastic.

LAMPIRAN 7
THE STAR (NEWS): MUKA SURAT 4
TARIKH: 7 JUN 2019 (JUMAAT)

Top Glove launches biogreen biodegradable nitrile gloves

KUALA LUMPUR:Top Glove Corp Bhd has officially launched its flagship green product, biogreen biodegradable nitrile gloves (powder-free), in conjunction with World Environment Day.

Developed to provide unparalleled protection not only for the user, but also the environment, this environmentally-friendly variant of disposable nitrile gloves is designed to biodegrade in anaerobic environments (where there is little to no breathable oxygen) such as in landfills.

"As a corporate citizen and an industry leader, environmental stewardship is a responsibility we take seriously.

"Through research and development and innovation, we believe we are well able to make a positive difference in this very important area and leave a positive legacy for the world we work, live and play in," executive chairman, Tan Sri Dr Lim Wee Chai said in a statement yesterday. — Bernama

LAMPIRAN 8
 THE STAR (EVENTS): MUKA SURAT 7
 TARIKH: 7 JUN 2019 (JUMAAT)

Showcase of 52 innovative projects

University college students pitch skills to potential employers for future in tech



First City UC's FEC students and faculty members at Innovation Day 2019.

STUDENTS from First City University College's (First City UC) Engineering and Computing Faculty (FEC) were a happy lot after showcasing 52 projects at the institution's Innovation Day 2019.

Themed "Your Vision, Our Future", the students from the foundation, diploma and bachelor's degree programmes worked to conceptualise and create projects to potentially catch the eye of representatives from First City UC's industry partners.

Under the right conditions, a student's project might even go on to make an impact in the tech market.

Besides serving as a form of final assessment for the students, the event presented them the opportunity to pitch their skills to potential employers.

Students usually include a QR code with their showcase project to allow industry representatives to download and view their resume.

In addition, each student's project stands the chance of being one of the top three winners in the Engineering or Computing category, with prize money and a letter of commendation up for grabs.

"For this year's showcase event, our faculty secured sponsors and industry partners such as E-Genting Sdn Bhd, Emerald Systems, JF Technology Bhd, NEM.io, OCK Group Bhd, Realme, Xstratize Technologies Sdn Bhd, Cytron Technologies, Applicate Sdn Bhd and Favoriot Sdn Bhd.

"I am happy that some of our alumni are returning as representatives of their own companies," said FEC dean Assoc Prof Christine Lee.

The notable exhibits from the engineering students included Tee Khing Hua's Fatigue Detection System, which uses a smartphone application and Bluetooth technology to monitor a driver's alertness; and Ng Yin Yuan's Autonomous Modular Robot, programmed with an intelligent navigation system and routing algorithm to navigate around plantations to pick fruits effectively.

The exhibit from the computing students were equally impressive.

Liem Shiaw Hong's Commercial AI is designed to assist small-and-medium enterprises by providing affordable solutions to

automate their business workflow, while Pang Hao Jie's 3D Piano Guru allows people to learn piano with gesture recognition technology.

Although each student's project was unique, only three winners could be picked from each category.

In the Computing category, Joseph Ong Wai Kah emerged second runner-up and Pang first runner-up. Liem was named winner for his impressive work.

In the Engineering category, Chan Yong Jie and Tan Aik Sing emerged second and first runners-up, respectively, while Tee was awarded first place for his industry-relevant project.

For JF Technology Bhd employee Caleb Lim, his professional journey came full circle at Innovation Day 2019.

As a 2018 graduate of First City UC's Bachelor of Electronic Engineering programme, he secured his job with the company even before completing his studies.

"I am glad that I was able to learn from my own showcase event last year to conceptualise and implement my own project.

"The hands-on experience I obtained served as a foundation for me to apply my skills in the working world," he said.

Innovation Day 2019 succeeded in its objectives as it motivated the students to create projects that would best reflect what they have learned from their programmes.

Located in the modern township of Bandar Utama, First City UC is an eco-friendly urban campus equipped with state-of-the-art facilities including a wide array of recreational and teaching facilities such as a library, cafeteria, student lounge, IT centre, centre for postgraduate studies, engineering labs, studios and workshops, lecture and seminar rooms, football field, indoor sports facilities, and on-campus accommodation with en-suite bathrooms.

The university college has maintained a stellar track record of producing highly employable graduates over the last 30 years, thanks in part to its Malaysian Qualification Agency-accredited and industry-relevant curricula.

For details, call 03-7727 3200 or visit www.firstcity.edu.my, Facebook page (@firstcityuc) and Instagram account (@firstcity.uc).

LAMPIRAN 9
BERITA HARIAN (BISNES): MUKA SURAT 22
TARIKH: 7 JUN 2019 (JUMAAT)

Forbidden berjaya inovasi durian

Sunny Food Lab Sdn Bhd (Sunny Food Lab) memperkenalkan konfeksi durian pertama di Malaysia menerusi jenama Forbidden, sekali gus membawa raja buah itu ke tahap baharu menerusi inovasi dan teknologi.

Ketua Pegawai Eksekutifnya, Damian Lee, berkata pengenalan produk itu selari hasrat syarikat untuk membawa durian tempatan ke peringkat lebih tinggi menggunakan bahan terbaik tanpa bahan tambahan.

“Jenama ini lahir daripada rasa cinta terhadap durian, terutama Musang King dan kami bekerjasama dengan rakan kongsi kami, SunnyHills iaitu jenama nanas yang memiliki reputasi tinggi dari Taiwan serta terkenal dengan konsep dari ladang ke bakeri dan hanya menggunakan bahan semula jadi,” katanya dalam satu kenyataan, baru-baru ini.

Ketika ini, syarikat memperkenalkan dua produk iaitu D24 Cigar dan Musang King Roll yang dihasilkan melalui proses dan teknologi terkini di Taiwan manakala produk asasnya, durian Musang King dihantar melalui kaedah sejuk beku untuk dikilangkan di Taiwan.

LAMPIRAN 10
THE STAR (STAR WORLD): MUKA SURAT 20
TARIKH: 7 JUN 2019 (JUMAAT)

Catching fish, crabs and waste

Fishermen fight to rid the sea of plastic rubbish in Italy

SAN BENEDETTO DEL TRONTO (Italy): On a moonlit night off Italy's coast, fishermen are hauling in the usual catch – cuttlefish, red mullet and plastic waste. But this time, they won't throw the rubbish back.

The trash instead is being collected, analysed and, where possible, recycled in an initially month-long experiment to try to provide a blueprint for cleaning up the sea.

"A lot of the fishermen used to throw the rubbish back into the sea, because the law says they can't bring it to land," said Eleonora de Sabata, coordinator for Clean Sea Life, which runs the project.

"They're not authorised to carry waste, in ports there's nowhere to put this kind of waste and it's not clear who should dispose of it."

That dilemma will hopefully not be an issue for the around 40 fishing boats sailing off the Adriatic resort of San Benedetto del Tronto who are taking part in the initiative.

Since it started, the fishermen have collected around a tonne of waste a week for a month, of which 60% is plastic.

Each day, volunteers catalogue and sort the smelly catch on the quayside.

Some is recycled, some is disposed of along with household or



Unwanted haul: A fisherman removing plastic waste from a net onboard a boat off the coast of San Benedetto del Tronto. — AFP

industrial waste, but none goes back in the sea.

The project had been due to wrap up on June 7, the day before World Oceans Day, but has now been extended through the summer months.

Organisers hope it will offer waste management solutions that

can be scaled up for the rest of Italy and beyond.

Much of the rubbish is single-use, such as bottles, plates and cutlery, but also includes old nets from fishing or mussel farming and assorted random plastic objects, from medical products to fax machine parts.

Fisherman Claudio Uriani, 62,

sorts the catch into different buckets, ready to be sold at market.

The most voluminous species is the plastic, though.

"Let's say we didn't always collect it. There didn't used to be anyone on land to take the plastic," said Uriani, who's been fishing since 1972.

"If the fish eat plastic, they get sick, and so we also can get sick."

The Mediterranean Sea faces the additional problem of being a virtually closed body of water surrounded by dense human populations.

A study by the peer-reviewed Public Library of Science (PLOS) published in 2015 estimated that the Mediterranean contains 1,000-3,000 tonnes of floating plastic, with an unknown quantity on the seabed.

The Nile river delivers at least 1,500 tonnes of plastic into the Med annually, according to the PLOS study.

Sperm whales wash up regularly on Italian beaches, their stomachs full of plastic.

"The rubbish that ends up in the sea all comes from people, from lakes and rivers, it's essential to educate people that what they put in the water ends up in the sea," said harbour master Mauro Colarossi. — AFP

LAMPIRAN 11
 THE STAR (STAR WORLD): MUKA SURAT 20
 TARIKH: 7 JUN 2019 (JUMAAT)

Rural South Africans face drought fears

KWAMUSI (South Africa): At the height of the 2015 drought that parched South Africa's eastern KwaZulu-Natal province, Julie Mkhize had to pull carcasses of dead cows from the dried riverbed near her village, after the desperate animals perished seeking water.

Soon, people in her rural community were collapsing as well from dehydration, with 10 dying from drought-related illnesses as drinking water ran short, Mkhize said.

In the years since, the village has seen water flows recover.

But this year, they are beginning to shrink again, producing deep-seated fear in KwaMusisi, a village of 4,000, more than two hours' drive northwest of Richard's Bay.

"Cows, donkeys, goats, children, farmers and families are all competing for the same water," said Mkhize, 63, a small-scale vegetable farmer, sitting in the shade of a community produce-packing shelter.

"We live in fear of the drought, every day."

Around the world, stronger El Nino weather patterns and climate change are bringing harsher and more frequent droughts - and already-dry southern Africa has been particularly hard hit.

Water shortages have killed crops, forced farmers to migrate to look for work, hobbled the hydro-power dams much of the region depends on for electricity and threatened the region's rich wildlife as waterholes disappear.

In 2017, South Africa's Cape Town made headlines as its mayor launched a countdown to a feared "Day Zero" when taps were expected to run dry - a crisis averted only by the city making an aggressive push to conserve water.

But much of the water-scarce country still suffers from poor water management, according to South Africa's Institute for Security Studies.



Dry times: A farmer standing on the cracked earth that was the bottom of a reservoir on his farm in Groot Marico, South Africa, in late 2015. Stronger El Nino weather patterns and climate change are bringing harsher and more frequent droughts - and already-dry southern Africa has been particularly hard hit. - AP

Scientists predict that as temperatures continue to rise with global warming and populations keep on growing, the region will see harsher water shortages - and will need to find clever solutions to ensure there is enough water for all.

With supplies scarce, fights over water are on the rise globally, with water think tank the Pacific Institute recording a surge in the number of related conflicts from about 16 in the 1990s to about 73 in just the past five years.

In KwaMusisi, a drip irrigation system - funded by the Siyazisiza Trust, a non-profit food security group - means Mkhize's vegetable cooperative, the Siza Bantu Nazareth Garden, can now grow and sell crops even through

dry periods.

Slim hoses woven through the garden allow river water to slowly drip into plants, minimising losses to evaporation.

Since 2012, KwaZulu-Natal has suffered below-average rainfall, said Phatisa Mfuyo, a spokeswoman at the province's Department of Agriculture, Environment and Rural Development.

But KwaMusisi's hoses have cut the water needed for irrigation and helped the 18 members of the cooperative maintain a steady income of at least 200 rand (RM58) per person per day.

That's a huge improvement from 2015, when "we ate mostly cabbage", remembered Lucas Thungo, the only male member.

"We couldn't even eat our staple food of pap (maize porridge) because it required using too much water."

KwaZulu-Natal's periodic water shortages have sometimes been called a "green drought" because sporadic rains still bring new plant growth.

But the province's rivers - the bigger source of water - are fast being used up, according to a report by the Institute for Security Studies.

"I know it looks beautiful now, but wait until the drought," Thungo said.

"Then all you see are rocks and dust. Everything becomes ugly. Even the relationships between different communities change for the worse." - Reuters

LAMPIRAN 12
 THE STAR (STAR ASEAN): MUKA SURAT 23
 TARIKH: 7 JUN 2019 (JUMAAT)

UN: Electric boats can alleviate pollution

BANGKOK: Developing electric public transport in the canals could help solve two of Bangkok's biggest problems – traffic congestion and air pollution, the United Nations Environment Programme (UNEP) suggested.

On World Environment Day, which was marked on Wednesday, UNEP said a team of experts was now working with the Climate and Clean Air Coalition as well as the Pollution Control Department (PCD) on a project to assess the impact canal-based public transport can have on air pollution in the city.



We want to improve the air we breathe, but we can't do this without the best possible data.

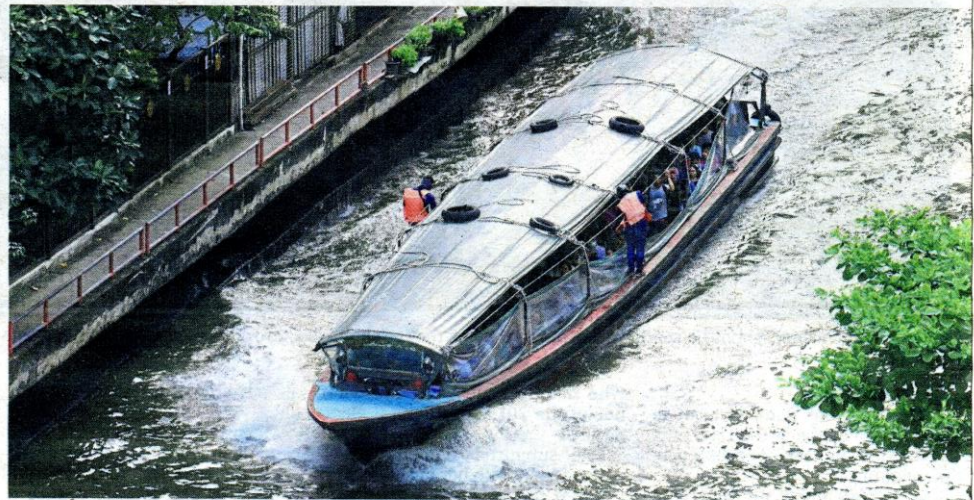
Bert Fabian



Bert Fabian, programme officer in the Air Quality and Mobility Unit, said the international agency and its Thai partners are identifying the types and amount of pollutants being emitted from boats plying the canals in Bangkok.

The study aims to find a better alternative that can mitigate the air pollution from this mode of transport.

"Bangkok suffers annual bouts of severe air pollution and this previ-



Chronic problem: Old diesel-run boats emit black exhaust fumes which can further worsen Bangkok's air pollution. — The Nation/Asia News Network

ously unmeasured source may be a significant contributing factor," Fabian said.

"We want to improve the air we breathe, but we can't do this without the best possible data."

He ventured that once the operators replace their ageing, polluting diesel boats with electric vessels, the city's network of canals would potentially offer a clean alternative and have a marked impact on both traffic congestion and air pollution in Bangkok.

Sonthi Kotchawat, a prominent environmental health expert, also

said that discarding diesel fuel would be key to tackling Bangkok's air-pollution problems.

"The transport sector is the largest source of air pollution in Bangkok and a recent study found that vehicle exhaust fumes contribute up to 52% of the pollution," Sonthi said.

He added that diesel engine exhaust is by far the worst pollutant as the combustion of diesel releases the highest amount of harmful PM2.5, very fine particulate matter, and other hazardous substances.

He also warned that the ultra fine

PM0.1, which is even smaller and more harmful than PM2.5, is generated by diesel combustion as well, which further adds to the health hazard of toxic air pollution.

"The best way to tackle air pollution is by controlling polluting emissions at their source.

"So, the authorities need to come out with a clear road map to control emissions from all sources, especially in the transportation sector, in order to sustainably tackle Bangkok's chronic air-pollution problem," he said. — The Nation/Asia News Network

LAMPIRAN 13
BERITA HARIAN (DUNIA): MUKA SURAT 50
TARIKH: 7 JUN 2019 (JUMAAT)

'Gunung Sampah' bakal atasi ketinggian Taj Mahal pada 2020



Mahkamah arah lampu merah diletakkan atas puncak untuk beri amaran kepada pesawat.

New Delhi: 'Gunung Sampah' terbesar di India bakal menjadi lebih tinggi daripada bangunan Taj Mahal pada 2020.

Tapak pelupusan sampah di Ghazipur sudah pun mengambil kawasan seluas lebih 40 padang bola sepak di timur New Delhi, yang dianggap ibu negara paling tercemar di dunia.

Pembuangan sampah meningkat sehingga 10 meter setiap tahun. Ia sudah setinggi 65 meter dan akan melepasi Taj Mahal yang setinggi 73 meter tahun depan.

Mercu tanda sampah itu kini begitu tinggi sehingga memaksa Mahkamah Agung India mengarahkan lampu merah diletakkan

di puncak untuk memberi amaran kepada pesawat.

Aktivis alam sekitar, Chitra Mukherjee, berkata ia perlu dihentikan kerana pembuangan sampah berterusan mencemarkan udara dan air bawah tanah dengan teruk.

Tapak itu dibuka pada 1894, mencapai kapasiti pada 2002 dan semakin banyak sejak itu.

Dengan pertambahan pesat penduduk dan peningkatan pengambilan, keadaan itu akan berterusan.

Bandar raya di India menghasilkan 62 juta tan sisa buangan setiap tahun dan ia akan berterusan meningkat kepada 165 juta tan menjelang 2030. **AGENSI**

LAMPIRAN 14
 THE STAR (STAR ASEAN): MUKA SURAT 25
 TARIKH: 7 JUN 2019 (JUMAAT)

China's first seaborne rocket launched in Yellow Sea

BEIJING: China carried out its first seaborne space launch in its territorial waters in the Yellow Sea, opening a new chapter in its space industry.

A Long March 11 solid-propellant carrier rocket blasted off at 12.06pm local time from a mobile launch platform – a modified submersible craft – off Shandong province, sending seven satellites into an orbit nearly 600km above Earth.

The mission – the world's first seaborne space launch in the past five years – showed China's possession of technologies and capabilities required for such an operation and also indicated the country has found an alternative to its ground-based launch centres.

It also showed that China is striving to expand its launch service portfolio and promote its carrier rockets to more countries, especially those that want their own satellite network at affordable costs.

Before the seaborne mission, China had conducted more than 310

carrier rocket launches at its four land-based space launch centres.

Compared with conventional, land-based launches, a sea mission has a lower risk of causing trouble for densely populated areas along the rocket's trajectory.

The method also allows launches to be made near the equator, which increases the rocket's carrying capacity, lowers launch costs and extends the life span of some satellites, according to Li Tongyu, project manager for Long March 11 at the China Academy of Launch Vehicle Technology.

Wednesday's launch also marked the first time a Chinese private company – Beijing Aerospace Satellite-herd Science and Technology – has provided monitoring and tracking service during the entire launch and flight path of a space mission.

The Long March 11, designed and built by the China Academy of Launch Vehicle Technology, is the first and only solid-fuel carrier rocket in the Long March family, the

pillar of the country's space programmes.

The model is 20.8m long, with a diameter of 2m and a lift-off weight of 58 metric tonnes.

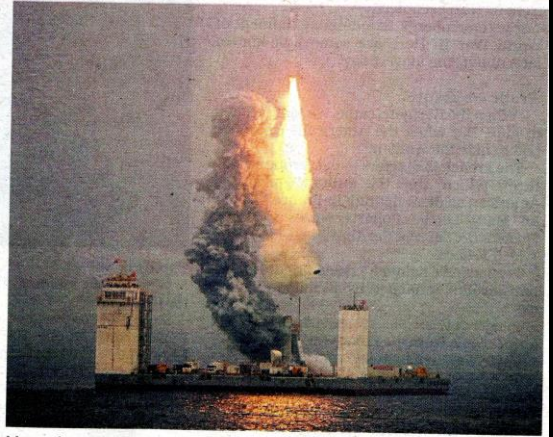
Its first flight was in September 2015 from the Jiuquan Satellite Launch Centre in China's Gobi Desert, ferrying four satellites to a sun-synchronous orbit.

The rocket was used in six launches before the seaborne mission and had placed 25 satellites into space.

All the previous missions began at the Jiuquan centre and were successful.

The mobile platform used in Wednesday's launch was owned and run by a Chinese maritime engineering company, which asked not to be named in consideration of contractual obligations.

Li said the Long March 11 will continue conducting sea-based launches to verify the rocket's capacity for various types of orbits. — China Daily/Asia News Network



New chapter begins: A Long March 11 solid-propellant carrier rocket, with a payload of seven satellites, blasting off from a mobile launch platform off Shandong province. — China Daily/Asia News Network