

KERATAN AKHBAR-AKHBAR TEMPATAN
TARIKH: 01 JUN 2016 (RABU)

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MOSTI Jangka 145 Lagi Produk R&D Dikomersialkan Tahun Ini

KUALA LUMPUR, 31 Mei (Bernama) -- [Kementerian Sains, Teknologi dan Inovasi \(MOSTI\)](#) menjangkakan 145 lagi produk hasil penyelidikan dan pembangunan akan dikomersialkan tahun ini.

[Timbalan Menteri, Datuk Dr Abu Bakar Mohamad Diah](#) berkata sehingga akhir 2015, 132 daripada 360 produk inovasi yang disasarkan pada 2020, dihasilkan oleh institut penyelidikan, universiti dan agensi pembangunan teknologi, telah memasuki pasaran.

Beliau berkata di bawah Tahun Pengkomersialan Malaysia 2016, kementerian itu menetapkan matlamat bagi menyelaraskan usaha untuk meningkatkan pengkomersialan penyelidikan, pembangunan dan inovasi, serta membangunkan ekosistem pengkomersialan.

-- BERNAMA

KERATAN AKHBAR
HARIAN METRO (BISNES) : MUKA SURAT 54
TARIKH: 01 JUN 2016 (RABU)

142 produk dikomersialkan

Kementerian Sains, Teknologi dan Inovasi (MOSTI) mencatatkan 142 produk yang dikomersialkan sejak 2014 hasil daripada aktiviti penyelidikan tempatan, sekali gus menjadikannya berada di landasan betul mencapai 360 produk dikomersialkan menjelang 2020.

Sejak Januari hingga Mei 2016, 10 produk dikomersialkan dan 145 produk penyelidikan dalam proses dipasarkan yang dijangka diperkenalkan secara berperingkat pada tahun ini.

Timbalan Menteri, Datuk Dr Abu Bakar Mohamad Diah berkata, geran diperuntukkan kerajaan untuk aktiviti mengkomersialkan produk berjaya apabila prestasi ditunjukkan dari tahun ke tahun semakin baik.

Beliau berkata, perkara itu dilihat dengan angka produk dikomersialkan pada 2014 sebanyak 65 produk dan meningkat kepada 67 pada tahun lalu.

"Aktiviti mengkomersialkan produk hasil penyelidikan bukan sesuatu yang mudah dan pantas kerana ia memerlukan masa menghasilkan sesuatu yang berkualiti, sambutan pengguna serta selamat.

"Malah, kita juga berasa gembira apabila terdapat produk komersial daripada aktiviti penyelidikan ini berjaya menembusi ke beberapa pasaran asing yang mana ia menunjukkan produk Malaysia mempunyai kualiti serta setaraf produk antarabangsa," katanya selepas majlis pelancaran produk Bionexus, di sini, semalam.



ABU Bakar (tengah) dan Pengerusi Biotechnology Corporation, Prof Zakri Abdul Hamid (dua dari kiri) pada majlis pelancaran produk Bionexus, semalam.

KERATAN AKHBAR
BERITA HARIAN (WANITA) : MUKA SURAT 38
TARIKH : 01 JUN 2016 (RABU)



[FOTO HIASAN]

Info

Saintis wanita

- Doktor purba Mesir, Merit-Ptah direkodkan sebagai saintis wanita terawal dalam sejarah sains.
- Antara tahun 1650 dan 1710 seramai 14 peratus daripada ahli astronomi Jerman adalah wanita.
- Ahli astronomi wanita terkemuka di Jerman adalah Maria Winkelmann.
- Rakyat Itali, Maria Gaetana Agnesi adalah wanita pertama yang dilantik sebagai profesor matematik di universiti pada kurun ke-18.
- Marie Skłodowska-Curie adalah saintis wanita pertama memenangi hadiah Nobel (fizik) dalam tahun 1903.
- Prof Datin Paduka Khatijah Yusoff - saintis wanita tempatan dinobatkan Muslim-Science.com sebagai 20 wanita Islam berpengaruh dalam bidang sains di dunia Islam.

Sumbangan wanita dalam bidang sains perlu diiktiraf.

Saintis wanita kurang menonjol

➔ MOSTI mahu organisasi dedah pencapaian, iktiraf sumbangan mereka

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► Kuala Lumpur

Malaysia melahirkan ramai saintis wanita cemerlang yang memberi sumbangan dalam bidang masing-masing, tetapi kurang diberi pendedahan hingga nama mereka kurang menonjol berbanding saintis lelaki.

Justeru, Kementerian Sains, Teknologi dan Inovasi (MOSTI) sedang berusaha mengetengahkan golongan terabit termasuk memberi banyak pendedahan di media massa berkaitan pencapaian dalam pelbagai bidang sains.

Ketua Setiausaha MOSTI, Datuk Seri Dr Noorul Ainur Mohd Nur, berkata sejak April lalu, kementerian sudah mengumpulkan wa-

nita yang cemerlang dalam bidang sains dan teknologi sempena sambutan Hari Wanita Antarabangsa untuk mengiktiraf sumbangan mereka.

Katanya, Malaysia ada ramai saintis wanita cemerlang. Sayangnya pencapaian mereka kurang didedahkan kepada umum kerana kurang inisiatif daripada organisasi masing-masing untuk menonjolkan kewibawaan mereka.

MOSTI hargai wanita

"Pencapaian mereka membanggakan dan jumlahnya juga semakin meningkat. MOSTI memulakan langkah memberi penghargaan kepada wanita yang cemerlang dan banyak menyumbang dalam pelbagai bidang sains di negara ini.

"Kita harap selepas ini lebih banyak pendedahan diberikan ke-

pada wanita dalam bidang itu. Sekarang ada perkembangan positif apabila semakin banyak media menyiarkan artikel mengenai kejayaan saintis wanita," katanya mengulas mengenai penyertaan saintis wanita di negara ini.

Noorul Ainur berkata, keutamaan beliau sekarang mendekatkan MOSTI di hati rakyat kerana mereka ada kaitan rapat antara bidang sains dan teknologi dengan kehidupan seharian.

Antara langkah kementerian memastikan setiap program dan aktiviti dijalankan adalah menjurus kepada keperluan rakyat.

Sementara itu, Presiden Women in Nuclear Malaysia (WIN), Dr Noor Hasnah Mohamed Khairullah, berkata walaupun bilangan saintis wanita di negara ini ramai, tetapi kurang diberi peluang menonjolkan diri untuk

menerajui organisasi saintifik atau dilantik ke peringkat pengurusan tertinggi.

Diskriminasi jantina

Memberi contoh dalam bidang nuklear yang memiliki hampir 44 peratus saintis wanita, Noor Hasnah berkata, sehingga kini belum ada dalam kalangan mereka di peringkat pengurusan tertinggi biarpun pengalaman dimiliki jauh lebih luas dan lama berbanding saintis lelaki.

"Kalau ada pun dalam bidang sains secara keseluruhan sehingga kini hanya Prof Datuk Dr Mazlan Othman diberi peluang mengetuai Agensi Angkasa Negara (Angkasa) kerana beliau adalah satu-satunya pakar astrofizik ketika itu," katanya yang melihat keadaan itu sebagai diskriminasi jantina.

SAINTIS WANITA

Reaksi



Malaysia ada ramai saintis wanita cemerlang. Sayangnya pencapaian mereka kurang didedahkan kepada umum kerana kurang inisiatif

daripada organisasi masing-masing untuk menonjolkan kewibawaan masing-masing"

Dr Noorul Ainur Mohd Nur,
Ketua Setiausaha MOSTI



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Dr Noor Hasnah Mohamed Khairullah,
Presiden Women in Nuclear Malaysia

Taking on the STEM challenge

GLOBAL TREND: Cultivating an interest in science and technology among the younger generation should remain a national priority

OVER the last few years, there has been a drop in the number of science graduates as reported by the Education Ministry and the issue doesn't seem to be improving any time soon.

Not limited to our shores, this is also a global issue that may only get worse in future if nothing is done about it.

The subject matters of Science, Technology, Engineering and Mathematics (STEM) had seen a strong interest in previous years but sadly, that is beginning to change.

Secondary and tertiary students are reportedly beginning to lose interest in STEM. The younger lot seems to favour other disciplines, in particular the Arts.

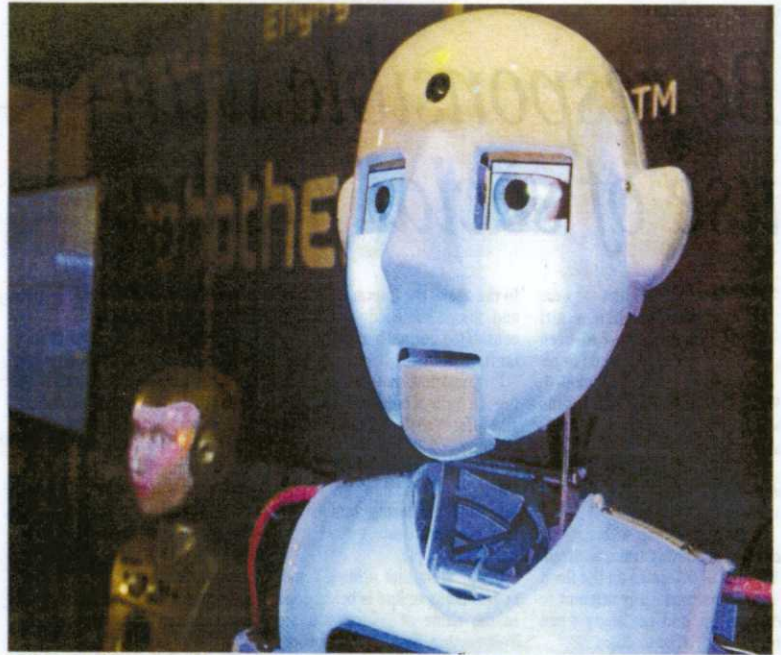
Science and technology go hand in hand. Without science, there will be no technology and without technology, science may not exist. Mathematics and engineering also go together as all four of these subjects are interlinked and used together.

We need to understand how important STEM is, and why we need it to be able to continue the nation's growth towards a brighter future. We don't often realise this but STEM is in our daily lives. From the way we live, the food we eat, the clothes we wear, entertainment and more, all of these have something to do with the applications of STEM.

We are connected to STEM, especially science and technology, more than we realise it. It is indeed worrying that the younger generation is losing interest in learning and cultivating science and technology from the early education platform.

It's really not to say that the STEM subjects are boring or mundane. As a matter of fact, science and technology is fascinating, exciting and very stimulating. We are all attracted to new discoveries, new scientific logic, new electronic gadgets and more, so it's not that we don't embrace science and technology.

We need to relook into how the



Robots at a robotics event in La Plaine Saint-Denis in France last Thursday. STEM is crucial in developing systems, structures, products or materials. AFP pic

education systems are reaching out to students through these subjects. Are the subjects harder than other disciplines, or students are now more into subjects that require less rules or effort and more freedom of casual learning?

The reality is that this global issue is caused by many reasons, such as education trends, shifts in youth mindset and incomes generated based on different professions.

Like it or not, STEM is important to our nation.

Put it this way, if we do not cultivate the disciplines in the younger generation, many things would remain as is. STEM is crucial in developing systems, structures, products or materials.

Science and technology is all about creators and innovators while engineering is about practical skills in carrying out the science and technology part. Mathematics is a fundamental core of all three subjects as one simply cannot do without math in attaining precision in science, technology and engineering.

It is time to do something and that something does not just lie on the doorstep of our education platform.

Every one of us has a responsibility to cultivate STEM. The education system may need to find a way to make STEM more interesting and appealing like moving on to physical activities outside, instead of just teaching theory in class.

Instead of just learning in class, it can probably incorporate more internship programmes for students. The education system can make STEM more exciting through all the modern social platforms that seem to garner a strong interest from the younger generation through early education programmes in school.

Building the younger generations' interest in STEM is not just confined to the classroom or school.

Parents need to also play a major role in encouraging their children to explore the disciplines. We may allow our children to be exposed to science and technology, but we don't often ask the children if they know how our world became what it is today.

We allow them to be exposed to the wonders of smartphones and computers, and yet we do not encourage them to think how they can innovate and create something bet-

ter than just to use the devices.

We need to also encourage students who are creative and talented to focus on STEM because combining creativity with STEM subjects produces innovations.

If Malaysia wants to achieve its Vision 2020, it is time to act now because growing a nation starts from the very basic years. Reversing the global trend of preferring the Arts to STEM subjects will take time, but there should be plans and actions put in place now to be able to address this.

If interest in STEM is not cultivated from the early educational years, we may have a future generation that is largely lacking in innovative talents and capabilities. That will be a step backwards in our efforts to build a nation with a strong competitive edge on the global front.

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The writer is editor of BOTs, the weekly tech section in Life&Times. Trained in Maths, he has since traded his problem-solving skills for writing about how tech has helped to transform the world for the better

The education system can make STEM more exciting through all the modern social platforms that seem to garner a strong interest from the younger generation.



DNA of Constitution 'at risk'

Ong: Racial issues can arise if Bill not managed well

Dong Zong
backs
MCA stand

By ADRIAN CHAN
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KUALA LUMPUR: The tabling of PAS Private Member's Bill to amend the Syariah Courts (Criminal Jurisdiction) Act or Act 355 will "change the DNA" of the Federal Constitution, says International Trade and Industry Minister II Datuk Seri Ong Ka Chuan.

"Investor sentiments will change. They will hesitate to continue their investments in our country. Our trade will be affected and all this will be detrimental to our economic fundamentals.

"It will cause rife unemployment and emotions to run high. If we do not manage it well, this could then become a racial issue," he said after witnessing the signing of several Memoranda of Understanding during the 2nd Investment Promotion Conference for Malaysia-China "Two Countries, Twin Parks" conference at Wisma MITI yesterday.

He expressed disappointment that certain media had portrayed MCA, of which Ong is secretary-general, as a party which does not respect Islam because of its firm stance against PAS' Bill.

Ong said MCA had partnered with Umno, a party made up exclusively of Muslims, and had helped build Malaysia since Independence.

"How can you say we do not respect Islam? We just want to protect the spirit of our Federal Constitution, which had ensured stability and continued economic growth since 1957.

"Why do we want to disrupt it?" he said.

Ong also confirmed that the PAS Bill was raised during a Cabinet meeting on May 20, but it was not an official agenda.

The Deputy Prime Minister (Datuk Seri Dr Ahmad Zahid Hamid) presided over the meeting that day. He gave us a hypothetical question, asking what are our

thoughts will be if a Bill relating to Act 355 was tabled during the parliamentary meeting.

"Everyone disagreed with it. Which was why we were so shocked when it appeared in the Parliament Order Paper the following week," Ong said of the meeting, which corroborates with the claim by Minister of Science, Innovation and Technology Datuk Seri Madius Tangau.

He added that the actions of Minister of the Prime Minister's Department Datuk Seri Azalina Othman, who raised the motion for the Bill to be expedited, "did not follow proper protocol".

"It did not receive the endorsement of the Cabinet or even the Barisan Nasional supreme council," he added.

The normal protocol for parliamentary decisions, he said, was to have an agreement in the Barisan supreme council before it is brought forward to the Cabinet for

official approval.

Ong reiterated that the Federal Constitution drawn up by the country's forefathers was secular. But it had provisions for the Syariah Court to hear issues relating to Islamic customs and religious matters.

However, he said the "3-6-5 Safeguards" were put in place to ensure that any offence punishable under the Syariah Court is limited to an imprisonment term of not more than three years, whipping of not more than six strokes or a fine of not more than RM5,000.

"By widening the scope of Act 355 by removing the 3-6-5 Safeguards, it will give the Syariah Court the authority to mete out any punishment short of the death penalty," he added.

Subjecting Malaysians to different legal systems go against the spirit of equality in the eyes of law, which was guaranteed by the Constitution, Ong said.

KLANG: The United Chinese School Committees' Association (Dong Zong) is fully behind MCA in the party's quest to oppose the tabling of PAS Private Member's Bill.

Dong Zong president Datuk Lau Lee Ming said the group will "stand firmly" with MCA on the matter.

"We will definitely cooperate with MCA to help stop the Bill from being passed. Because if this is successful, there will be two sets of laws in the country.

"Although Malaysia is known as an Islamic country, we cannot split the country's laws into separate rules for Muslim and non-Muslims," he said after the opening ceremony of the second Malaysian Independent Chinese Secondary Schools' Art Camp at the Chung Hua Independent High School here yesterday.

Lau added that MCA president Datuk Seri Liow Tiong Lai had met him to discuss the Bill soon after it was brought up in Parliament.

Reject any law against Constitution, Sabah leader urges

KOTA KINABALU: Any Bill that contravenes the Federal Constitution should be rejected, says a Sabah Barisan Nasional component party leader.

Upko acting president **Datuk Seri Madius Tangau** said the party reject-

ed any Bill, that if passed, could cause a ripple effect which required amendments to the Constitution.

"We do not want Parliament to be placed in a position where constitutional amendments have to be made to allow the inception of cer-

tain laws passed earlier.

"There is a danger that the Bill will eventually coalesce into a stream of other new laws that will end up contravening the spirit of the Constitution," he said when met at the state-level Kaamatan or

Harvest Festival celebrations at the Hongkod Koisaan here.

Tangau said Malaysians should reflect on the hopes and aspirations of the country's forefathers in creating a united Malaysia.

"Our forefathers had the vision to

create a great nation with such diverse people with different races, cultures and faiths.

"They have worked hard to get the people living together in harmony, and with respect and understanding for each other," he added.

PAS ready to explain Bill to detractors

KOTA BARU — As more leaders express outrage over Datuk Seri Abdul Hadi Awang's Private Members' Bill, PAS offered yesterday to explain the matter to all those who were against it.

Its deputy president Datuk Tuan Ibrahim Tuan Man, in his speech at the launch of PAS Youth's 57th Muktamar here, stressed PAS was not forcing anyone to support the Bill, which detractors have dubbed the "Hudud Bill".

"But we want Muslim MPs to understand that it is their responsibility to support this Bill," he said.

Both PAS and Umno have insisted that Hadi's Bill was not a hudud Bill but simply a Bill seeking amendments that would upgrade the Shariah courts' powers to hand out harsher sentences.

Acknowledging that protests had been expressed by leaders of MCA, MIC and Gerakan, Tuan Ibrahim said these politicians failed to react the same way when the 1Malaysia Development Berhad (1MDB) controversy was making media headlines.

"They have threatened to resign. But why did they not threaten to resign over 1MDB? Why did they not threaten to resign over cost of living issues?"

"Why did they not speak out when it came to issues concerning the rakyat? They should not be stopping the rights of Muslims to practise their teaching," he said.

The Barisan Nasional (BN) leadership has yet to make a collective decision for its members to vote on the Bill to amend the Shariah Courts (Criminal Jurisdiction) Act 1965, Umno information chief Tan Sri Annuar Musa said yesterday.

He said parliamentarians were free to vote according to their conscience on the Bill.

"On the Barisan Nasional level, we have not received any orders from the party. We



Tuan Ibrahim arriving at the PAS Youth Muktamar yesterday. He says PAS was not forcing anyone to support the hudud Bill.
— Picture by Bernama

have not decided on our stand as yet and we will decide when the time comes," he said.

"We can let Barisan Nasional members vote according to their conscience because it is a Private Member's Bill, not a government Bill," he said.

In Kota Kinabalu, Datuk Seri Madius Tangau, the Sabah's United Pasokmomogun Kadazandusun Murut Organisation (UPKO) acting president, said BN partners must have a consensus on the Bill.

"UPKO has always held true to the principle of 'setia kawan' in BN. And we

believe that a consensus decision, after hearing the opinions of each party which represent the various races in Malaysia, to be the best approach.

"We must continue and protect this practice and principle so that we can overcome any challenges together as one people," he said.

Tangau has been vocal about his opposition to the Bill, and had on May 25 sent a letter to the prime minister to register his objection.

The Sabah politician expressed concern

yesterday that the Bill would eventually pave the way to amendments to the Federal Constitution.

"We do not want a Bill to create a ripple effect that requires amendment to the Federal Constitution.

"Even matters concerning the conversion and custody of children from a civil marriage when one parent had converted have yet to be settled. Can we really afford to have another constitutional crisis which will again create apprehension among the people?" — Malay Mail Online

Matter was raised in cabinet on May 20

KUALA LUMPUR: Pas' controversial private member's bill was brought up during a cabinet meeting earlier this month but it was not part of the meeting's official agenda, said Datuk Seri Ong Ka Chuan yesterday.

Ong, who is international trade and industry minister II, confirmed claims by fellow cabinet member Datuk Seri Madius Tangau that the matter was raised during a cabinet meeting on May 20.

"The deputy prime minister (Datuk Seri Dr Ahmad Zahid Hamidi) chaired the meeting. As a preamble to the meeting, he asked what our views were in the event that a bill relating to Act 355 was tabled in Parliament.



**Datuk Seri
Ong Ka
Chuan**

"It was a hypothetical question, but everyone disagreed with the idea," he told the *New Straits Times* yesterday.

Ong, who is also MCA secretary-general, said the cabinet did not reach a conclusion on the issue.

"After that, we did not discuss the matter further.

"That is why we were surprised to see the bill making an appearance in the Parliament order paper last week."

Ong said Minister in the Prime Minister's Department Datuk Seri Azalina Othman Said, who is in charge of parliamentary affairs, did not follow proper procedure when expediting the bill by Pas president Datuk Seri Abdul Hadi Awang.

"Her action did not receive prior approval from the cabinet nor the Barisan Nasional supreme council."

He said anything relating to parliamentary matters should have been referred to the council before being presented to the cabinet for endorsement.