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UKM Wins

Top Award and **Three Gold Medals**

at PECIPTA

UKM the only Local University to Win Top ASEAN Solar **Energy** Prize



RM91.2 Millions in Research Grants for UKM in 2015

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Photograhper

Corporate Communications
Photo Unit Group

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Contribution are welcomed and can be sent to: pkk@ukm.edu.my



RESONANCE connotes dynamism and vibrancy Resonance reflects our vision and philosophy and it is also in tandem with our sister publication SENADA. As one of the research universities of Malaysia, dynamism is a virtue much prized by us for it ensures our pre-eminence in the field Other aspects of campus life are not neglected After all, we are a community of scholars support staff and students. The pulse and vibrancy of the whole community can be felt as you read through the pages of RESONANCE Happy Reading.

Editorial Team



Message from the Vice-Chancellor

Assalamualaikum and Good Day,

The year 2015 was filled with a variety of events, achievements, successes and challenges. It witnessed the strengthening of the six national Key Results Area (6 KRA's) as a template for UKM to be the Guardian of the Nation.

2015 also reflected the various achievements of UKM which further enhanced the university's reputation. In view of these successes, I urge all to continue the good work to achieve greater advances, so that UKM remains relevant referred and respected. The impact of our academia needs to be close to the community and UKM must always strive to need our motto, Inspiring Futures, Nurturing Possibilities.

The year 2016 will see more and more demands to be met. We have to be innovative, creative and should embrace and manage the changes UKM will continue to challenge the convention in order to achieve more, work through experimentation to achieve something new. Let us enter 2016 with enthusiasm, understanding and mutually-agreed goals.

May the year 2016 brings more successes and innovations for all.

Prof. Datuk Dr. Noor Azlan Ghazali

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Message from the Vice-Chancellor

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KM will be one of the first university in ASEAN to offer programmes for students in Malaysia and other ASEAN member countries.

These programme is hoped to create a sense of belonging to be identified

as Asean. This, according to

Ministry of Communications

and Multimedia Malaysia
(MCMM) Secretary
General Datuk Seri Dr
Sharifah Zarah Syed
Ahmad is a challenge
as many people do
not understand or
know about the
relevancy of ASEAN
in their lives.

For students enrolled at UKM, this includes the opportunity to participate in programmes that involve the exchange of student leaders and credit transfer system among the top 30 universities in the group, said Vice-Chancellor Prof Datuk Dr Noor Azlan Ghazali in his welcoming remarks at the celebration of the 48th ASEAN Day.

"The government in collaboration with other ASEAN partners are providing the ASEAN Action Plan 2016-2015, which includes the politics and security, economic and socio-cultural aspects. The plan we can use as guidelines for charting the future of our nation with countries in the region," he explained.

MCMM, through the Department of Information, will also be cooperating in the field of digitization of books and creating 'Internet Protocol Television (IPTV) to offer online television broadcasts with ASEAN partner countries.

UKM the Only Local University Win Top ASEAN Solar Energy Prize

KM is the only local public university to have won a prize at the annual 2015 ASEAN Energy Awards.

The Solar Energy Research Institute (SERI) of UKM was declared winner with its' project, a telecommunication base station powered by solar energy using a Maximum Light Detection (MLD) system that automatically follows the path of the sun.

UKM Vice-Chancellor, Prof. Datuk Dr. Noor Azlan Ghazali, Deputy Vice-Chancellor (Research and Innovation) Prof. Datuk Dr. Mazlin Mokhtar and SERI Director Prof. Dato' Dr. Kamaruzzaman Sopian accepted the award at the 33rd ASEAN Ministers On Energy Meeting (AMEN) and ASEAN Energy Awards Gala Dinner.

This is the third consecutive year that UKM was honoured at the ASEAN Energy awards, with SERI winning top prizes in 2014 and 2013 also for the Special Submissions category.

In 2014, SERI was awarded first prize for application of venturi-shaped wind-induced natural ventilation tower and photovoltaic thermal collectors for low energy homes, while in 2013 it won the top award for the Green Hospital – Large Scale Solar Assisted Hot Water Heating System at the UKM Hospital.

Earlier, Prof Kamarruzaman explained that the MLD or Maximum Light Detection principle is based on the most accurate, fastest and most energy-saving tracking system of the solar module toward the maximum light point.





UKM Expands Alliances with 16 Indonesian Colleges in Various Fields

he National University of Malaysia (UKM) has broadened cooperation with 15 Indonesian higher learning institutions and an Agency for the Assessment and Application of Technology (BPPT). The collaboration was sealed with the signing of a Memorandum of Understanding (MoU) by UKM Vice-Chancellor Prof Datuk Dr Noor Azlan Ghazali with rectors and deputy rectors of the higher education and research institutions on Nov 20, 2015.

The MoU is to provide more opportunities for Indonesian students to do their Master and Doctorate degrees at UKM, increasing levels of expertise and development of human capital for all parties involved, such as student and lecturer exchanges, co-writing of papers for high-impact international journals and the strengthening of ties between Malaysia and Indonesia.

The education cooperation between UKM with the government of Indonesia was implemented through various means, such as conferences, forums, discussion, lecturer exchange, visits, and joint reviews. There has been 80 cooperation agreements in the form of Letter of Intent (LoI), 23 MoU's and four Memorandum of Agreements (MoA) between UKM with the Indonesia government and various institutions in Indonesia. The cooperation was strengthened when there are 13 academicians of Indonesia is currently being served at UKM.

The MoU involves four faculties at UKM such as the Engineering and Built Environment, Islamic Studies, Fuel Cell Institute and Graduate Centre. At present the number of UKM postgraduates now stands at 11,169 and 333 of them are from Indonesia, while the total alumni members from Indonesia is more than 3,000.

Strategic Partners@UKM

The Indonesian institutions of higher education which signed the MoU are Universitas Malikussaleh (UNIMAL), Universitas Sumatera Utara (USU), Universitas Islam Negeri Sumatera Utara (UINSU), Universitas Sriwijaya (UNSRI), Universitas Muhammadiyah Sumatera Utara (UMSU), Universitas Medan Area (UMA) and Univeritas Muslim Nusantara (UMN) Al Washliyah.

Other institutes are Akademi Teknik Indonesia Cut Meutia (ATICM), Universitas Bung Hatta (UBH), Universitas Putra Indonesia "YPYK" Padang, Universitas Serang Raya (UNISERA), Universitas Mercu Buana (UMB), STIE Bisnis Indonesia (STIEBI), Universitas 17 Agustus 1945 Cirebon (UNTAG) and Universitas Islam Indonesia (UII).

The event was witnessed by Malaysian Ambassador to Indonesia Datuk Seri Zahrain Mohamed Hashim.





Varsity Students'Ideas on Palm Oil Industry Sustainability Bear Fruit



KM won second prize in the Sustainability Challenge, a competition initiated by UKM and the Sime Darby Foundation (UKM-YSD) Chair for Sustainable Development: Zero Waste Technology.

Prof. Ir. Dr. Mohd Sobri Takriff, the chairman of the Sustainability Challenge said the winner was selected from the ten best entries and those selected are the most innovative and most unique.

"This competition provides an excellent opportunity for the participants to present their sustainability ideas to the private sector for further research and development," he said.

The team from UKM won RM5,000 while USM took home the RM8,000 prize money and UMS was placed third and received RM3,000 cash prize.

UKM proposed extracting a complex sugar, known as Furan dimethyl acetyl, (FDA) from oil palm tree trunks to be used as an anti-cancer compound similar to Cureumin.

UKM had also received an endowment fund of RM15 million from YSD with the aim of leading and directing research that is relevant to palm oil industry to aspire Malaysia to be a model for sustainable development for the world.

With the collaboration of Sime Darby Plantation, UKM is able to carry out research that can increase the value-added products from the industry, as well as reduce green house gas emissions.

These improvements include green technology and innovative practices, ultimately leading to zero waste to the ground, air and water.



UKM Wins Top Award and Three Gold Medals at PECIPTA



Innovation@UKM

KM continues its winning streak, clinching the Best Award and three Gold Medals at the International Conference and Exposition on Inventions by Institution of Higher Learning (PECIPTA) 2015.

The research by Prof. Dr. Abdul Salim Babji, Assoc. Prof. Dr. Ma'aruf Abd Ghani and Dr. Zalifah Mohd Kasim from the Faculty of Science and Technology about swiftlets' nests had been chosen by judges to be the best at PECIPTA 2015.

Aptly titled Bioactive Swiftlet Nest Capsule
– Natural Antioxidant & Anti-Hypertension
Capsule, the research studies the usage of
natural materials such as swiftlets' nests as a
natural food supplement.

According to the researchers involved, bioactive edible bird nest hydrolysates capsule is touted as a natural food supplement developed via selective enzymatic hydrolysis to produce superior glycopeptides with high functional characteristics. This natural hydrolysates were reported to be scientifically tested and found to be high in antioxidant and antihypertensive properties.

The research is a beneficial alternative for those with a hectic lifestyle, and yet concerned with maintaining a healthy life.

This research also bagged the Gold Medal, along with two other research projects, namely: A New Double-Negative Metamaterial Design for Electromagnetic Absorption Reduction in Human Head by Dr. Mohammad Rashed Iqbal Faruque, Prof. Dr. Mohammad Tariqul Islam and Prof. Ir. Dr. Mardina Abdullah from Space Science Centre (ANGKASA) and A Simple and Low Cost Z-Blade Turbine for Low Head and Low Flow Pico Hydro System by Prof. Dato' Dr. Kamaruzzaman Sopian, Prof. Dr. Sohif Mat and Mohd Farriz Md Basar from the Solar Energy Research Institute (SERI).

The PECIPTA 2015 Closing Ceremony was officiated by Minister of Higher Education Dato' Seri Idris Jusoh.

In his speech, he spoke about initiatives to develop more innovation-driven enterprises to enhance national competitiveness.

CEO@UKM

Travelling Helps Broaden Perspective



iving abroad, travelling and learning foreign languages can help one learn more about the diverse cultures and explore ideas and prospects which will help one become a good business leader, said Michaela Dinboeck, the President and Managing Director of Novartis Malaysia.

Michaela advised prospective entrepreneurs to understand other economies, ways of being and societies beyond the borders of their own home so that they can have a business advantage adding that it is important for students to have a deeper global awareness and get out of their comfort zone.

Aside from that, she explained that to become a CEO one must be able to perform multiple roles and take cognizance of all aspects of the organization.

"You have to be able to design the strategy and direction of the organization, profit or loss of the company, develop and retain the talent and personnel control system, brandbuilding and the culture. In the end, you are responsible for everything that happens in the organization," she said.

Being a respected leader does not mean you would just communicate with your peers.

"Spend regular time communicating with your staff and customers to listen to their opinions, needs and ideas. Better understanding of your staff and customers will build relationship which will further enhance their efficiency," she added.

Michaela has 20 years experience in the pharmaceutical industry, health care and medical equipment at the local, regional and global levels.





UKM Students Give Back To the Community in Pahang

Activities of this programme ranged from helping the Orang Asli to build a mosque from tent covers, to setting up water pumps that channelled clean water from nearby rivers to their homes.

The students also ensured the cleanliness of the inhabitants' homes by performing multiple sessions of cleaning activities.

One of the participants, Yazmalina Yaacob, 21, said that the main reason the programme was organised is to have fun with the Orang Asli.

"We did a few activities such as senamrobik, telematch, ice-breaking and sembang santai. Overall, we enjoyed ourselves and I'm sure they did too, based on the good feedback obtained from their headman," Yazmalina added.

This programme was attended by 20 staffs and 20 participants.

KM students contributed their time and skills to help an Orang Asli community in Pahang recently.

The students of the Faculty of Education (FP) and Centre for Development and Alumni Relations (PPMPA) organised a programme, dubbed *Bakti Siswa*, which was held on 3rd of December at Kampung Bukit Serok, Pahang.

With the theme, Career Is The Catalyst Of The Future, the organisers of the event aimed to improve interpersonal skills like communications, management, leadership and cooperation, and foster unity amongst students involved.



Research@UKM



Early Screening Essential to Diagnose Breast Cancer

he many factors that lead to the risk of breast cancer, makes it difficult to contain the disease, said Prof Dr Zulfiqar Muhamed Annuar, specialist and lecturer from the Department of Radiology, The Chancellor Tuanku Muhriz Hospital (HCTM), Universiti Kebangsaan Malaysia (UKM).

The best way to prevent it, she said, is through early diagnosis and treatment by qualified experts such as mammography with ultrasound.

She was speaking at her Professor's Premier Lecture titled *Breast Cancer: Early Detection and Diagnosis Using Imaging*, at the Tuanku Jaafar Chancellor Medical Education Complex, Kuala Lumpur recently.

"In the field of mammography, progress has been achieved with a transition from Analogue Mammography to Screen-Film, to Digital Mammography that uses computers to detect an abnormality in the images. "In the field of Ultrasound, progress has been made with a transition from two-dimensional analog imaging that produces high-resolution images, to the production volume of three-dimensional images automatically," she elaborated.

For breast biopsy, i.e. the removal of breast tissue to examine it for signs of breast cancer or other problems, progress has been made with the use of excision biopsy through surgery, to Percutaneous Biopsy, or a needle biopsy by taking a small portion of tissue, using only a small incision, so it can be examined under a microscope.

She said that the progress and development in the areas of mammography, breast ultrasound and breast biopsy using imaging techniques has contributed to better detection and determination of diagnosis of breast cancer at an early stage.

"The combination of mammography and ultrasound produce higher sensitivity and specialization rates in the detection of breast cancer at an early stage," she explained further.

She also gave assurances to women not to fear the biopsy procedure as it is necessary in order to save them from cancer.



alaysians should eat more fruit and vegetables to help stave off obesity and other life style related diseases.

Epidemiological studies indicate that fruit intake will lower the risk of coronary heart diseases, hypertension and strokes and may prevent cancer and slow down the aging process, said Prof. Aminah Abdullah, an expert in Food Science at the Faculty of Science and Technology (FST), The National University of Malaysia (UKM).

Fruit, as with vegetables, have been considered to be protective food containing vitamins, minerals and fibres, but are now even more important due to their antioxidant content, said Prof. Aminah.

"Obesity is a disease, caused by improper diet. It has been on the increase in Malaysia since 2011. In 2014 49% of women and 44% of men were found to be obese," she said.

Fruit are part of functional foods that include specialty crops, tree fruit, berries, coloured potato and vegetables.

"There are also 'super fruit' that have antioxidant, anti-ageing, and anti-inflammation properties and improves eye-eight. Some example are pears, watermalen and soursop.

"Banana is a common fruit that is easily available and is ulcerogenic, at least against gastric ulcers. It staves off constipation, depression and strokes," she explained.

Another common fruit that that is attracting a lot of attention is pink guava which have antioxidant and anti-diabetic properties.

In her lecture titled *Fruit: A trendy approach for maintaining optimal health*, she said a person needs at least two servings of fruit a day and three of vegetables as part of the diet to maintain health.

"All over the World many people are not taking enough fruits. There are seven fruits specifically mentioned in the Quran that offers various benefits for health; figs, olives, dates, pomegranate, grapes and Indian Jujube," said Prof. Aminah in her public lecture here on September 29.

Sometimes, she said, fruit and vegetables can be processed into more attractive products such as juices and beverages, nutritious and tasty fruit bars and other innovative products.

She explained that all countries, including Malaysia, provide guidelines in the form of a 'Food Pyramid' which recommends a person to consume at least two servings of fruit each day.

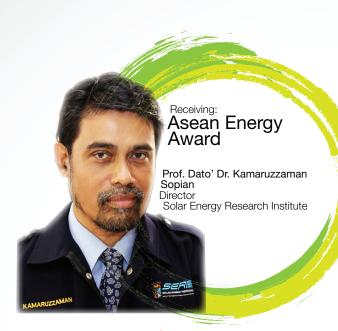
"Fruit contains fructose (corn syrup) and glucose – simple sugars that are easy to absorb than sucrose, which is a processed complex sugar that is less healthy because it is not easily absorbed. Sucrose requires the enzyme sucrase to break it down to the two monosaccharides. It is more expensive than corn syrup and promotes tooth decay.

"If you are not diabetic, then eat as much (fruit) as you can. But consult a doctor first," she advised.

Also present at her public lecture was Dean of FST Prof. Dr. Sahrim Hj. Ahmad and Deputy Dean Prof. Dr. Rusli Daik.



Expert@UKM





Receiving
The Merdeka
Grant Award
2015

Dr. Mohd Sukor Su'ait
Fellow Research
Solar Energy Research Institute
(SERI)

Recipient of
Ma'al Hijrah
Negeri
Sembilan Icon
in Conjuction to Ma'al Hijrah
Celebration 1437H/2015M Negeri
Sembilan State Level

Prof. Dr. Zainul Rashid
Mohammad Razi
Deputy Dean of
Graduates and
International Affairs
UKM Medical
Centre
(PPUKM)







Budget Commentaries



GREEN TECHNOLOGY AND A SUSTAINABLE LIFE

Prof. Dato' Dr. Mazlin Mokhtar

The Malaysian government and multicultural society have always strived to raise their incomes, without sacrificing the environment and wasting of natural resources.

I applaud the Government's emphasis on the importance of innovation and creativity in enhancing development while still looking for new ways to reduce the Carbon Footprint.

This could clearly be seen from the 2016 Budget, which has dedicated efforts to reduce the carbon footprint while raising the National Gross Domestic Product by 40% by the year 2020, with or without aid from developed nations. This was witnessed in the offers of subsidies and tax incentives, from the government through various institutions to the private sector to stimulate the culture of green technology in everyday life. This includes the use of products based on Solar Energy technology and other renewable energy sources, which also paves the way for green entrepreneurship.

The government is indeed far-sighted in offering various worthwhile schemes, mechanisms and incentives for the people to improve their living standards and the environment based on green technology strategies.



EFFICIENT TRANSPORTATION SYSTEM

Prof. Dato' Ir. Dr. Riza Atiq Abdullah O.K. Rahmat

To ensure the comfort of people in urban areas, an efficient public transport system is being intensively implemented, involving significant outlays.

The implementation of mass public transport systems such as MRT, LRT and BRT will help ease road traffic congestion and allow commuters to be less dependent on personal transport. They will also greatly reduce air pollution and the country's carbon footprint.

These include, the first Phase of the Ampang LRT line extension project spanning 18.1km, expected to be ready for use in March 2016. Meanwhile, the LRT extension line from Kelana Jaya to Putra Heights spanning 17.4 km will be ready for commuters from the middle of 2016. Both these projects cost RM1 0 billion.

There were also plans to improve logistics infrastructure, including building and improving rail transport network and highways in 2016. These include the highways of Damansara - Shah Alam, Sungai Besi - Ulu Klang, Pulau Indah and Central Spine Road.



GREEN TECHNOLOGY AND SUSTAINABILITY

Prof. Dato' Dr. Kamaruzzaman Sopian

The Ministry of Science, Technology and Innovation has allocated RM1.5 billion to turn the country into a competitive hub and 2016 has been declared as Malaysia Commercialisation Year towards spurring commercialisation of R&D products by local research institutions.

In terms of energy, the National Plan of Action focuses on 3 main areas: the promotion and encouragement of the use of electric-powered vehicles for public transport, providing infrastructure for the setting up of charging stations and empowering the local development of electric-powered mobility.

Solar energy for integrated photovoltaic buildings should be given priority over solar farms, as the former is more sustainable in the longer run because it uses less land, keeping in mind of rising property costs. It is also gives public buildings a more environmental-friendly look. As there is a difference between the feed-in tarif scheme to the clean-energy metering system, the public will be able to make a choice.

TKMONec1a

Training surgeons in a new era The writer is reassured that there are better and improved medical facilities in his own backyard.

By Dr HARDIP SINGH GENDEH

By Dr HARDIP SINGH GENDEH

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Advanced Surgical Skills
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Prof Dr Hanaflah Harunarashid, senior consultant vascular sursenior consultant vascular surgene at UKMO and directory the ASSC, said: "The Good and the Conference of the ASSC, said: "The ASSC, said: "Th

Reducing training costs

Reducing training costs

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Integrated learning

The ASS facility does not only
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Dr Marvin Rous resident at
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On a mission to save the environment

'PAK TEH': 2015 Merdeka Award recipient grateful for recognition of conservation efforts

AY, OCTOBER 19, 2015

FARHANA SYED NOKMAN KUALA LUMPUR farhanasyed@pst.com

ROWING up in a kampung has inspired Professor Inspired I

in Kota Baru, Kelantan.

He then attended Sultan Ismail
College where the science-stream
student showed interest in Science
and Mathematica.

"When you grow up is

and Mathematics.

When you grow up in a kampung, everything is beautiful and
pristine. The rivers are clean and
the forest is green, But well will not be clear
to the city, you see pollution in the
water and there are no little in the
trivers. The greenery that I love so
much was missing.

That drove him to pursue his
tudies in environmental conserevents.

He has also included new records to the flora of Malaysia that include and vatica sarawkensis, Madhuca copalembanica and Cissus aristolo-choldes.

Seven scientific plant names, such as Vatica laufiji, Barringtonia datifii, as well as two animal species (Ansonia laufiji), and retrastigma laufiji, as well as two animal species (Ansonia laufiji) and meloidad), were named in his honour.

Among his accomplishments were the Fellow of Linnean Society of 177), Fellow of the Malaysia (2003). Calcium Malaysia (2003).

That drove him to pursue his studies in environmental conservation of the malaystan Scientific and grand-hildren and gra

IGP wants UKM to provide courses on cyber threats

KUALA LUMPUR: Police are looking into collaborating with Univer-siti Kebangsaan Malaysia (UKM) to provide courses focused on increa-

sing officers' capacity in handling cyber security and cyber crimes. Inspector-General of Police Tan Sri Khalid Abu Bakar said he would hold further discussions with Prof Dr Hazita Azman from UKM. "Cyber crimes are a threat in this day and age. We must increase the

capacity of our officers in handling

this threat.
"This doesn't mean that we aren't prepared to face this threat. We are always ready but we have to upgrade and improve our capacity," he told reporters at the police aca-

demy here yesterday. Khalid said a cyber security unit was already in place under the Science, Technology and Innovation Ministry.

"We more or less complement or

assist the unit in handling cases related to cyber security. "The police also have a special unit under the Commercial Crime Investigation Department (CCID) to handle cyber crime cases," he said. Police, said Khalid, were ade-

quately staffed in combating cyber crime but there was a need for officers to increase their experience and knowledge in the area.

"We send our officers for training in other countries. We've sent them to Hong Kong and China to gain experience. We are always working with other countries, especially China, in facing the threats of cyber crime," he said.

Police, said Khalid, would be tak-

ing full advantage of courses pro-vided by the Interpol Global Complex for Innovation (IGCI) in Singapore to equip officers with

knowledge on cyber crime and

knowledge on cyber crime and cyber security.

"If necessary, we will discuss the setting up of a department that deals specifically with cyber crimes. For now, it is adequate to put it under the purview of the CCID," he said

said.
Focusing on cyber crimes and cyber security would also help in the fight against the Islamic State, added Khalid.

PRIME NEW

1st Malaysian doctor to get UK medal

RCSED AWARD:

HUKM surgeon says his students are his inspiration

> NURADZIMMAH DAIM KUALA LUMPUR

OSPITAL Universiti Ke OSPITAL Universiti Ke-bangsaan Malaysia's diffurm) director of advanced surgical skills centre (ASSC) Professor Dr. Hanafiah Harunarashid has become the first Malaysian to receive the Royal College of Surgeons of Edinburgh

well as Malaysians.

He received the RCSEd Interna-tional Medal during a ceremony at Edinburgh College on Friday.

A consultant vascular surgeon, Dr Hanafah, 48, is recognised for his role in establishing the ASSC, as well as his promotion of quality assess-ment for the Malaysia Red Crescent Society (MRCS) and UK Joint Sur-gical Colleges' Fellowship Examina-tion and other RCSEd activities conducted in Asia, particularly in

Malaysia.

He was in the pioneer group that set up the vascular unit at UKM and the Asean Sheffield Medical College.

Fondly known as Doc Peah and Hana to some, he said his students were his inspiration.

"I love my students. I am close to them Some all the Mr. Hans come.

true inspiration."
He said his alma mater, Malay College Kuala Kangsar (MCKK), was more than a school. This is an institution that shaped my life. I was a prefect, debater, president of societies and a student leader, I was also active in sports."
After 15 years of serving as a surgeon in the United Kingdom, Dr Hanafiah said he returned to Malaysia in 2007.
"I left, MCKK and studied." "I left MCKK and studied

medicine at the University of St An-drews, I got the gold medal for the best student and 17 distinctions. I had the opportunity to go to Can-bridge, but I chose Edinburgh U

Surgeons of Edinburgh president Dr Dr Mike Lavelle-Jones at Edinbu courtesy of Professor Dr Hanafiah Haru

arship and opportunity at school, I wouldn't be where I am today, "I want to serve my own people. I want my children to know their roots and where they came from," said the father of five, who also energe in the selected because of his skills and experience as a mentor and surgical

oys cooking.

When asked about his recipe for less, he said: "There is no sub-for hard work. Surgical train-letime process. Remember, trust in your hands. You sure you do your best b. t. But don't forget to

be humble. We are merely human, not God."

RCSEd vice-president Mike Lavelle-Jones said Dr Hanaflah was selected because of his skills and experience as a mentor and surgical trainer and involvement in establishing ASSC.

"Through his efforts, we were able to reintroduce the MRCS examina-

"Through his efforts, we were ame to reintroduce the MRCS examina-tion after a gap of 7 years. In 2013, we saw the launch of the MRCS OSCE (Objective Structured Clinical Ex-amination) examination at ASSC."

PRIM

WS

Still top of the charts in cricket UKM remain dominant

in varsity cricket, thanks to dedicated players and coaches

Story and photos by ROGER RODRIGO metrospt@thestar.com.my



Shafe, Fari Sham, Sax M. Moor and Nasarudus, washing, Fari Shafe, Fari Sham, Shafe, Shafe,

science, you understand the world' d the world

I pursue science.

Science is our future. If you understand science, you understand the world, he said adding that he enjoyed tending his garden in his free time.

Born on March 20, 1985, in Penang, he attended 58 Sunail Bakau and completed his secondary education after graduating from Mara collegie Nulling Hongain Studies in Physical Sciences), he pursue his degree in chemistry at UKM.

During the 27nd UKM convocation has the end of KUALA LUMPUR. Merdeka Award
Grant recipient Dr Mohd Sukor
Stylat said the success of his research on pall on 10-based effects
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tablished institute around the world.

"I'm proud to be an award recipient this year. This award is meaningful to see a young scientist as a lust finished my doctoral set year. It feels the next step for my carciners would allow him to next see the set of the second o

he said.

Sukor hoped that more parents would encourage their children to

d sukor su'ait in a lab at Universiti Keb a Thursday, Pic **by Z**uifadhli Zulkifii



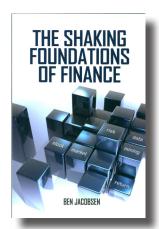








New **Releases**



The Shaking Foundations Of Finance

2015

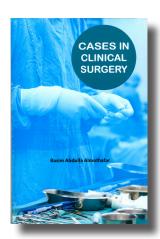
Penerbit UKM

ISBN: 978-967-412-364-2

RM25.00

Edited by Ben Jacobsen

The Shaking Foundations of Finance argues that the foundations of finance may no longer be as solid as they once seemed. Based on academic research of Ben Jacobsen and others, the author discusses the unpredictability of markets, the relation between risk and return and diversification. He discusses how new academic insights on these three topic offer opportunities for both practitioners and academics.



Cases In Clinical Surgery

2015

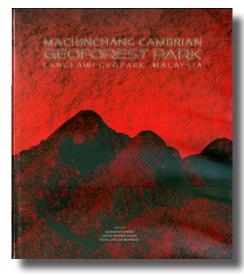
Penerbit UKM

ISBN: 978-967-412-327-7

RM35.00

Edited by Basim Abdulla Almothafar

One of the important principles of diagnostic procedure is to make connections between the history and physical examination before making a correct diagnosis. The design of this book follows this principle. This book contains eighty two surgical cases, divided into eight chapters according to the systems. The chapters represent the main range of cases relevant to students.



Machinchang Cambrian Geoforest Park Langkawi Geopark, Malaysia

2015

Penerbit UKM

ISBN: 978-967-412-321-5

RM200.00

Edited by Norhayati Ahmad, Mohd Shafeea Leman, &

Kamal Roslan Mohamed

Langkawi Island was endorsed as a Global Geopark by the UNESCO Global Network of National Geoparks (GGN) in 2007 for its effort in promoting and conserving internationally significant geological features within the Machinchang Cambrian Geoforest Park, alongside Kilim Karst Geoforest Park and Dayang Bunting Marble Geoforest Park. Geoforest park is a unique concept

first developed by the Forestry Department of Peninsular Malaysia for the purpose of protecting geodiversity within protected reserved forest of Langkawi.

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