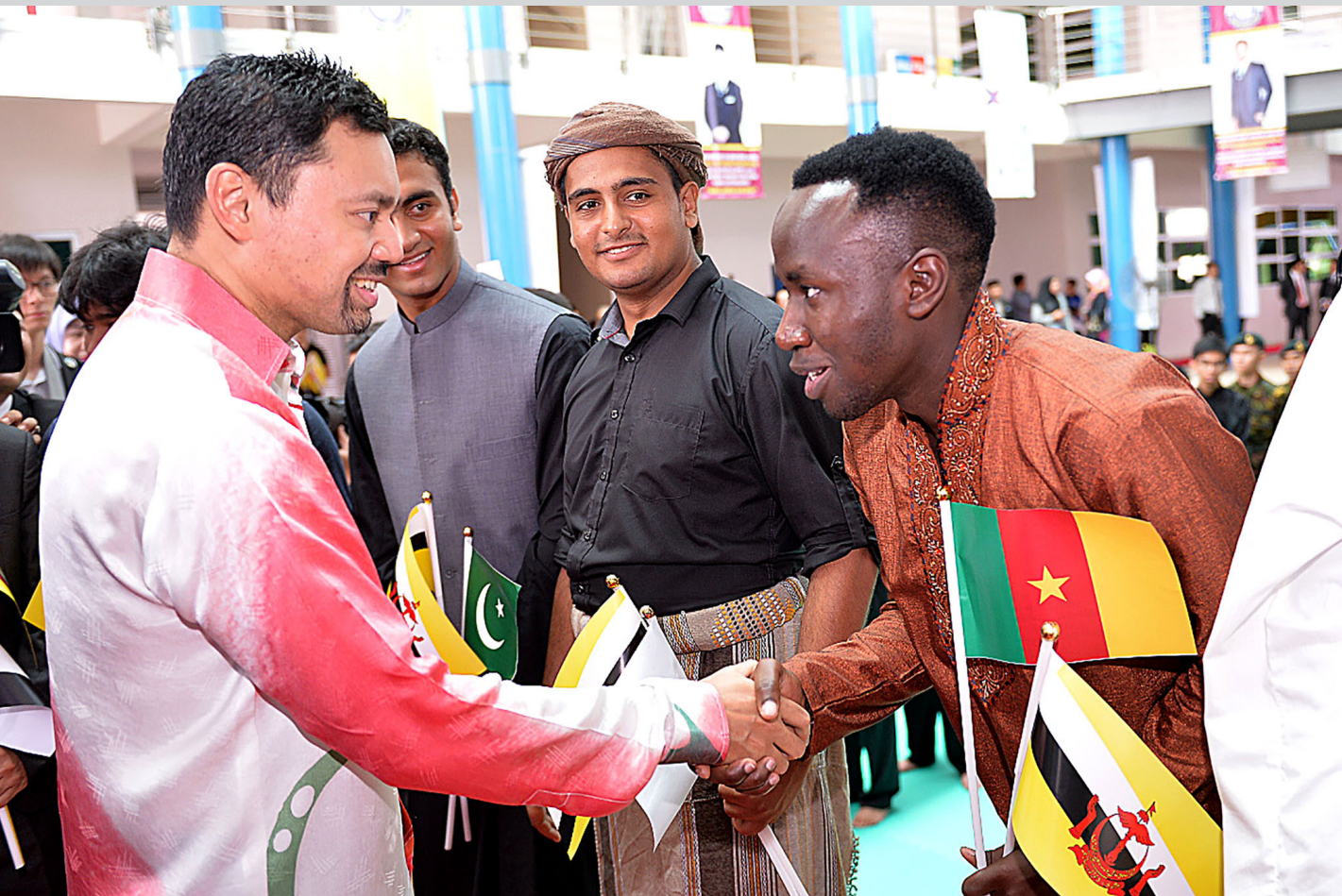
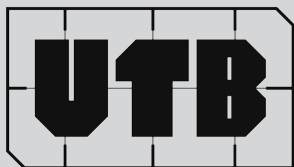


Utbpulse

11th Issue : 31 December 2016
Universiti Teknologi Brunei



Thirtieth Anniversary



1986-2016

Past • Present • Future

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بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

السلام عليكم ورحمة الله تعالى وبركاته



Alhamdulillah, praise to Allah Subhanahu Wata'ala, we are able to publish the Eleventh issue of Universiti Teknologi Brunei (UTB) Pulse.

This issue features, amongst others, UTB Convocation 2016, Third Convocation Festival, retreats and conferences.

The Convocation Event on 7th November 2016 was presided over by His Majesty the Sultan and Yang Di-Pertuan of Brunei Darussalam and Chancellor of UTB. The graduates from 12 newly awarded Bachelor degree programmes were among the 599 recipients. The Student Excellence Award was held after the ceremony and the Honorable Minister of Education, Pehin Orang Kaya Indera Pahlawan Dato Seri Setia Awang Haji Suyoi bin Haji Osman graced the event.

In conjunction with Convocation Event 2016, Khatam Al-Quran ceremony for 200 graduates and Dean's List Award/other Awards were held on 31 October 2016 and 14th November 2016, respectively

On 27th October 2016, His Royal Highness Prince (Dr.) Haji Al-Muhtadee Billah, the Crown Prince and Senior Minister at the Prime Minister's Office, Pro-Chancellor of UTB officiated the Third Convocation Festival and the new gallery in conjunction with UTB's 30th anniversary celebration. The theme of the Third Convocation Festival was XLR8, an acronym for EXperiential LeaRrning PARtnerShips or 'Accelerate' in short. One activity to celebrate the occasion was the XLR8 Fun Run & Cycle and pop-up vendors in support of 'Bandarku Ceria.'

UTB conducted two strategic management retreats, one was with the International Advisory Panel from 7-8 November 2016 and later with Principal Officers and deputies on 26 November 2016. In both meetings, we discussed way forward for UTB Strategic Plan 2013-2018, measures of Key Performance Indicators (KPIs) and initiatives.

We are also proud to host Brunei International Conference on Engineering and Technology or BICET 2016 from 14th-16th November 2016 and Computational Intelligence on Information Systems or CIIS from 18th-20th November 2016. One major outcome from CIIS was a publication of conference proceedings by Springer.

I hope you will enjoy reading the 11th issue of UTB Pulse.

Wabillahi Taufik Walhidayah Wassalamualaikum Warahmatullahi Wabarakatuh.

Zohrah Sulaiman

Professor Dr Hjh Zohrah Hj Sulaiman
Vice-Chancellor
Universiti Teknologi Brunei

Features

TITAH KEBAWAH DULI YANG MAHA MULIA PADUKA SERI BAGINDA SULTAN HAJI HASSANAL BOLKIAH MU'IZZADDIN WADDAULAH IBNI AL-MARHUM SULTAN HAJI OMAR 'ALI SAIFUDDIEN SA'ADUL KHAIRI WADDIEN, SULTAN DAN YANG DI-PERTUAN NEGARA BRUNEI DARUSSALAM DALAM MAJLIS KONVOKESYEN 2016 UNIVERSITI TEKNOLOGI BRUNEI



Assalamu'alaikum Warahmatullahi
Wabarakatuh

Bismillaahir Rahmaanir Raheem

Alhamdulillah Rabbil 'Alameen, Wabihee
Nasta'eenu 'Alaa Umuuriddunya Wadden,
Wassalaatu' Wassalaamu 'Ala Asyrafil
Mursaleen, Sayyidina Muhammaddin,
Wa'ala Aalihee Wasahbihee Ajma'een,
Waba'du.

Beta bersyukur ke hadhrat Allah Subhanahu
Wata'ala kerana dengan izin-Nya jua,
dapatlah kita pada pagi ini, bersama-sama
berhimpun di Majlis Konvokesyen Universiti
Teknologi Brunei (UTB) Tahun 2016.

Di kesempatan ini Beta sukacita
mengucapkan setinggi-tinggi tahniah dan
syabas kepada para graduan di atas kejayaan

mereka menamatkan pengajian masing-
masing. Semoga kejayaan ini menjadi
pemangkin kepada kecemerlangan di masa
akan datang. Beta juga mengucapkan
tahniah dan syabas kepada para ibu bapa dan
penjaga serta tenaga pengajar yang sentiasa
berusaha memastikan para graduan sentiasa
berada di landasan yang betul di sepanjang
tempoh pengajian mereka sehingga dapat
meraih kejayaan yang sungguh bermakna.

Beta juga mengucapkan tahniah di atas
pertukaran nama Institut Teknologi
Brunei kepada Universiti Teknologi Brunei
(UTB) setelah mencapai usia 30 tahun
penubuhannya. Beta berharap dengan nama
baru ini, semua usaha akan ditingkatkan
lagi bagi memenuhi objektif, misi dan visi
universiti. Walau bagaimanapun, Beta
ingin mengingatkan, supaya apa jua yang

dirancang dan dilaksanakan, hendaklah sentiasa berlandaskan MIB.

Seterusnya, Beta difahamkan bahawa majlis konvokesyen pada kali ini akan menyaksikan penganugerahan sulung bagi 12 program ijazah Sarjana Muda yang mula diperkenalkan pada tahun 2012. Ini adalah pencapaian yang membanggakan kerana UTB mampu meluaskan lagi bidang pengajian yang ditawarkan dan seterusnya telah membuka lebih banyak peluang kepada lebih ramai pelajar untuk meneruskan pengajian mereka di UTB.

Dalam hal ini, Beta menyeru supaya UTB akan sentiasa melipatgandakan lagi usaha memperkenalkan program-program lain yang relevan dan yang dapat memacu perkembangan ekonomi negara. Alhamdulillah, setakat ini Beta ada mendengar bahawa para graduan yang dilahirkan oleh UTB adalah mampu untuk memenuhi kehendak pasaran pekerjaan dengan baik. Namun di dalam masa yang sama, penglibatan mereka di bidang keusahawanan masih lagi di tahap yang rendah. Memandangkan adanya kekurangan pencapaian ini, maka sudah sampai masanya bagi UTB mengkaji dan menggubal semula kurikulumnya bagi memastikan semangat, kecenderungan dan peluang dalam bidang keusahawanan itu dapat dibentuk seawal-awalnya lagi.

Menyentuh mengenai sumber tenaga kerja dari industri yang bukan berasaskan minyak dan gas, Beta mengambil maklum mengenai penubuhan Sekolah Sains Gunaan dan Matematik (School of Applied Sciences and Mathematics) yang menawarkan program ijazah Sarjana Muda Sains Makanan dan Teknologi. Program itu, antara lain dihasratkan untuk mendukung pertumbuhan ekonomi dari industri permakanan di negara ini, selaras dengan usaha kerajaan dalam mempelbagaikan sumber ekonomi melalui pelaburan langsung asing. Beta berharap penubuhan

Sekolah Sains Gunaan dan Matematik itu akan mampu mengangkat UTB sebagai penyumbang kepada peningkatan industri permakanan yang berkualiti tinggi, yang mampu bersaing di arena antarabangsa.

Mengenai dengan pengiktirafan bagi program-program profesional pula, usaha tersebut adalah suatu yang sangat perlu bagi meningkatkan kemahiran dan kebolehpasaran graduan. Oleh sebab itu, Beta gembira apabila mengetahui bahawa Sekolah Pengkomputeran dan Informatik UTB telah diiktiraf oleh British Computer Society, sebuah badan profesional antarabangsa. Di dalam iklim ekonomi global yang masih tidak menentu, inisiatif ke arah pengiktirafan program-program itu boleh menjimatkan kos latihan bagi majikan.

Seterusnya dalam mendepani krisis ekonomi dunia ini, UTB dan Institusi-institusi pengajian tinggi awam (IPTA) hendaklah mengamalkan sikap berjimat cermat dan tidak bergantung sepenuhnya kepada kerajaan. IPTA boleh menjana pendapatan berdaya tahan melalui perkhidmatan kepakaran dan penyelidikan berinovasi, sesuai dengan statusnya sebagai separa autonomi. Pendekatan ini mampu untuk menjamin kelangsungan inisiatif-inisiatif agenda pertumbuhan organisasi masing-masing.

Akhirnya, Beta tidak lupa merakamkan ucapan penghargaan dan terima kasih kepada semua warga Universiti Teknologi Brunei (UTB), yang merangkumi Ahli-Ahli Majlis, Ahli-Ahli Senat, Naib Canselor, Pegawai-Pegawai Utama, Ahli-Ahli Akademik, pegawai dan kakitangan atas segala sumbangan dan perkhidmatan mereka. Beta berdo'a semoga Allah Subhanahu Wata'ala jua akan memberkati segala usaha dan titik peluh mereka dengan mengurniakan ganjaran yang berlipat ganda.

Sekian, Wabillahit Taufeq Walhidayah, Wassalamu 'Alaikum Warahmatulahi Wabarakatuh.

CONVOCATION 2016

His Majesty Sultan Haji Hassanal Bolkiah Mu'izzaddin Waddaulah ibni Al-Marhum Sultan Haji Omar 'Ali Saifuddien Sa'adul Khairi Waddien, Sultan and Yang Di-Pertuan of Brunei Darussalam, Chancellor of Universiti Teknologi Brunei (UTB) consented to officiate the UTB Convocation 2016 on 07 November 2016 at the Plenary Hall, International Convention Centre (ICC), Berakas.

His Royal Highness Prince (Dr.) Haji Al-Muhtadee Billah ibni His Majesty Sultan Haji Hassanal Bolkiah Mu'izzaddin Waddaulah, the Crown Prince and Senior Minister at the Prime Minister's Office, Pro-Chancellor of UTB was also at the Ceremony.

The arrival of His Majesty the Sultan and Yang Di-Pertuan of Brunei Darussalam and His Royal Highness the Crown Prince at the ICC was greeted by the Minister of Education and Chairman of the UTB Council, Yang Berhormat Pehin Orang Kaya Indera Pahlawan Dato Seri Setia Awang Haji Suyoi bin Haji Osman; Vice-Chancellor of UTB, Professor Dr. Dayang Hajah Zohrah binti Haji Sulaiman; and Registrar & Secretary of UTB, Dayang Jennifer Hiew-Lim.

Procession of the Chancellor into the Plenary Hall then followed, led by the Bentara (mace-bearer) holding aloft the Mushaf Al-Quran.

Awangku Muhammad Hafizul 'Ilmi bin Pengiran Haji Marjuki, a graduate in Electrical and Electronic Engineering recited verses 51 - 62 of Surah Al-Mukminun in the Holy Quran. Subsequently, Awang Muhammad Hafiz bin Haji Hasnan, a Civil and Structural Engineering graduate read lessons from the verses. The Vice-Chancellor of UTB then delivered the Sembah Alu-aluan.

His Majesty the Sultan and Yang Di-Pertuan of Brunei Darussalam and Chancellor of UTB also consented to deliver the Titah.

His Majesty the Sultan and Yang Di-Pertuan of Brunei Darussalam and Chancellor of UTB then consented to deliver a Titah conferring the Master's Degree, Bachelor's Degree and Higher National Diploma to recipients listed in the Convocation Book. This was immediately followed by the call of '*Allahu Akbar, Wa Liillah il Hamd*' by the graduates and all present. His Majesty then consented to present Bachelor's Degree to 309 graduates of Intake Four, Higher National Diploma Level Five to 119 graduates from Intake Two, and BDTVEC Higher National Diploma to 170 graduates from Intake 29.

At the end of the ceremony, Doa Selamat was read by the State Mufti. Before leaving the ICC, His Majesty the Sultan and Yang Di-Pertuan of Brunei Darussalam and His Royal Highness the Crown Prince consented to mingle with the graduates and their family members.









EXPERIENTIAL LEARNING PARTNERSHIPS (XLR8) SHOWCASED AT THE THIRD CONVOCATION FESTIVAL

27 October 2016 - His Royal Highness Prince (Dr.) Haji Al-Muhtadee Billah ibni His Majesty Sultan Haji Hassanal Bolkiah Mu'izzaddin Waddaulah, the Crown Prince and Senior Minister at the Prime Minister's Office, in his capacity as the Pro-Chancellor of UTB consented to officiate the Third Convocation Festival 2016 and toured the XLR8 Exhibition.

The theme of the 2016 Convocation Festival was 'XLR8 (Experiential Learning Partnerships)'. The theme is based on the University's mission to provide experiential learning, enhance research and foster partnerships. The acronym 'XLR8' is derived from the phrase 'eXperiential LeaRning pARtnErships' which is also pronounced 'accelerate'. This signifies the University's endeavour to 'accelerate' efforts to realize its vision to be amongst the best 10 universities for Engineering and Technology in Southeast Asia by 2018.

The XLR8 Exhibition consisted of four components: The Journey, Strategic Partnerships, 360° Graduate and The Cycle. 'The Journey' showcase depicted a brief history of UTB since its establishment thirty years ago in 1986, highlighting major milestones in academic and research developments, strengthening of partnerships, graduates preparation, infrastructure development and initiatives towards producing marketable graduates. His Royal Highness the Crown Prince also consented to sign a plaque commemorating the launch of UTB's 30th Anniversary Exhibition at the UTB Gallery.

The second component of the XLR8 Exhibition was 'Strategic Partnerships', one of UTB's strategic ambitions. UTB places an important emphasis in industry engagement in curriculum development, internship placement under UTB Experience PLUS, knowledge transfer and collaboration in community activities.

The third component was '360° Graduate', another strategic ambition of UTB. UTB believes that a well-rounded graduate who is socio-economically responsible and possesses strong MIB values can be developed through extra-curricular activities such as sports, leadership, competitions, religious and community-based activities.

The last component of the exhibition was 'The Cycle'. This component showcased the avenues in which graduates can remain involved and contribute to the University through the alumni association. Another initiative that was showcased was the University's efforts to sustain and boost interest in Science, Technology, Engineering and Mathematics (STEM) amongst school students through the 'School Adoption Programme'.

After touring the exhibition, His Royal Highness consented for a photograph session with student representatives and also received a 'Pesambah' from the UTB Student Representative Council.

UNIVERSITI TEKNOLOGI BRUNAI

10 Muharram 1438 27 Oktober 2016

EXPERIENTIAL





PROTEK ALUMNI UNIVERS





CONVOCATION FESTIVAL EVENTS



30 October 2016
XLR8 Fun Cycle in Bandar
Seri Begawan

10 November 2016
Pop-up Career Fair



28 – 30 October 2016
Brunei's Coolest
Entrepreneurship Expo



02 November 2016
The Mechanical Engineering team
champions at the Second Inter-
faculty Debate Competition



NAASIRUDDEEN RECEIVES THE VICE-CHANCELLOR AWARD AT GRADUATES' CONGRATULATORY CEREMONY



07 November 2016 - The Graduates' Congratulatory Ceremony was held in conjunction with Universiti Teknologi Brunei Convocation Ceremony 2016 to celebrate the 599 graduates who have successfully completed their studies and to recognize graduates that have excelled in their academic programmes.

The Minister of Education and Chairman of the UTB Council, Yang Berhormat Pehin Orang Kaya Indera Pahlawan Dato Seri Setia Awang Haji Suyoi bin Haji Osman was present as the Guest of Honour. Also present were Pengiran Dato Paduka Haji Bahrom bin Pengiran Haji Bahar, Deputy Minister of Education, and Dato Paduka Awang Haji Abdul Mokti bin Haji Mohd Daud, Deputy Minister of Religious Affairs and other members of the UTB Council.

At the ceremony, the Vice-Chancellor's Award for 2016 was presented to Awang Naasiruddeen

bin Abdul Wahab, a BEng (Hons) in Electrical and Electronic Engineering graduate, for demonstrating outstanding overall performance in academic, leadership and contributions to the University and community.

The Minister of Education also presented awards in various categories to 43 graduates. The award categories include the University Excellence Award, Excellence in Programme Area, Best Project Award, Best Student in Niche Area, Petrokon Utama Engineering Award, Institution of Engineering and Technology (IET) Local Network Prize, and PUJA Prestige 2016 Student Award.

UTB AWARDS BEST STUDENTS

14 November 2016 - 37 students received the Dean's List award under their respective programmes in the UTB School of Business, School of Computing and Informatics, and the Faculty of Engineering. Meanwhile, six students who have excelled in their co-curricular activities also received their awards. The award categories for the co-curricular activities were: Religious Activities, Outstanding Community Services Achiever, Outstanding Life Skills Achiever, Outstanding Cultural Activities Achiever, Sportsman, and Sportswoman, and the UniCup Prestige Award.

The awards were presented by Pengiran Dato Paduka Haji Bahrom bin Pengiran Haji Bahar, Deputy Minister of Education.

UTB introduced the Dean's List in 2015. The Dean's List gives recognition to first, second and third year students who have demonstrated outstanding academic achievement in their studies. They represent the top 5% of students in their respective fields.



FIRST MEETING WITH UTB'S INTERNATIONAL ADVISORY PANEL

The UTB International Advisory Panel (IAP) was formed to provide a valuable external perspective of the University's vision, programme, strategic directions and overall objective. The Panel is comprised of Professor Mark Spearing, Vice-President for Research & Enterprise, University of Southampton; Professor Jackie Y Ying from the Institute of Bioengineering and Nanotechnology, (A*STAR), Singapore; Professor Soo-Young Lee, Director, Brain Science Research Center, Korea Advance Institute of Science and Technology; Adjunct Professor Soon Loo, CEO Darussalam Enterprise (DARe); and Professor Bertil Andersson, President of Nanyang Technological University.

The first meeting with the IAP was held on 7 and 8 November 2016. At the meeting, the IAP members discussed and provided feedback on the University's Strategic Plans and current directions. Professor Mark Spearing, Professor Jackie Ying, and Professor Soo-Young Lee held a sharing session with UTB staff and lecturers with presentations on best practices of their respective institutions.

In an interview, Professor Mark Spearing thought that the University had a really good strategy and UTB's vision to be amongst the best ten universities for Engineering and Technology in Southeast Asia by 2018 was admirable and correct. Nevertheless, he explained that it was an ambitious target and its strategy of focusing in a

few areas by doing them very well was exactly right. He also mentioned that partnership with other universities and industries was vital for a research-intensive university.

Meanwhile, Professor Jackie Ying recommended that it would be very useful for UTB to align its research areas and centres of excellence with Brunei's future direction. She added that this would allow the focus of resources, and exciting direction for example green chemistry and energy, which would help the University to be visible in research reputation. This was particularly important in attracting top-notch universities as well good students to UTB, as well as in creating valuable intellectual property which would attract the industry to work with the University.

Professor Soo-Young Lee in his interview highlighted that setting goals, selecting and focusing on certain strategy areas to achieve that goal and hard work were very important especially with limited time and effort. He also added that motivating good professors and students to come to the University and providing them with natural environment to work hard on their goals would play a big role in the success of a university. He also emphasised on the importance of research collaboration with other universities and industries.







KHATAM AL-QURAN CEREMONY IN CONJUNCTION WITH UTB CONVOCATION 2016

31 October 2016 – 216 graduates took part in a Khatam Al-Quran ceremony held in conjunction with UTB Convocation 2016. The participants comprised of 78 male and 138 female graduates from Intake Four of UTB's undergraduate degree, Intake Two of HND Level 5 and Intake 29 of BDTVEC Higher National Diploma programmes.

The Minister of Education, Yang Berhormat Pehin Orang Kaya Indera Pahlawan Dato Seri Setia Awang Haji Suyoi bin Haji Osman was present as the Guest of Honour. Also present were Pengiran Dato Paduka Haji Bahrom bin Pengiran Haji Bahar, Deputy Minister of Education; Professor Dr. Hajah Zohrah binti Haji Sulaiman, Vice-Chancellor of UTB; senior officials from the Ministry of Education and UTB. The ceremony took place at the University Mosque.

INDUSTRY LECTURE SERIES INAUGURATED WITH TALK ON MEGASTRUCTURES

29 October 2016 - The Industry Lecture Series is one of the University's new initiatives under the Professional Advancement Unit. Invited industry practitioners will deliver weekly lectures on various topics related to science and engineering. The aims of the lecture series are to give exposure to students on the latest technology in the industry, to help students to be up-to-date with current developments in the engineering industry and to showcase successful professionals as 'role-models' by recognising their contribution to the industry.

The first lecture of the series was delivered by Dato Paduka Awang Haji Suhaimi Bin Haji Gafar, Deputy Minister of Development on the topic 'Megastructures: Issues and Challenges'. In the talk, Dato Suhaimi elaborated on the technical, social and economic challenges of the 30 km Temburong Bridge project and the ingenious engineering solution applied in overcoming the technical challenges.

Dato Paduka Awang Haji Suhaimi started working in the Public Works Department (PWD) in 1985 and holding several directorship posts. He previously served as Director of Road Department, Director of Development, Director of Water Services, Director of Drainage and Sewerage Department, Deputy Director General and Director General of PWD. Dato was appointed as Permanent Secretary (Technical and Professional), Ministry of Development in December, 2010 until he retired in 2015.





MOE AND UTB WORK TO ENHANCE STEM

31 August 2016 - The Second National STEM (Science, Technology, Engineering and Mathematics) and Innovative Design Challenge Competition was held at the Multi-purpose Hall of UTB. It was organised by the Curriculum Development Department through the Technology Studies Unit with the cooperation of UTB.

In his welcoming remarks at the competition, the Director of Curriculum Development in the

Ministry of Education (MoE), Awang Haji Abdul Rahman bin Haji Nawawi said that the cooperation between the two would not be limited to organising the STEM challenge, but also for UTB to be a training centre for teachers. Awang Haji Abdul Rahman shared that the Curriculum Development Department and Universiti Teknologi Brunei were planning to sign a Memorandum of Understanding to enhance the ongoing cooperation.



WORK TOGETHER TEAM EDUCATION

Ten secondary schools and one technical institution took part in the challenge, which required teams to design and build their own Formula One racing car models using computer-aided design software and computer numerical controlled and micro-router milling machines. Teams then had to pit their car models against each other on a 20m racetrack and promote their cars through verbal presentations and pit booth displays. The 'Falcon Team' from Tanjung Maya Secondary School emerged as the

overall champions after winning the knockout race and also the 'Fastest Car' and 'Best Reaction Time' categories of the competition.

The Minister of Education, Yang Berhormat Pehin Orang Kaya Indera Pahlawan Dato Seri Setia Awang Haji Suyoi bin Haji Osman presented cash prizes, trophies, certificates and medals to the winning teams.

CONFERENCE ON LIBRARIES TRANSFORM

The Brunei Library Association in cooperation with UTB organized a conference on Libraries Transform from 19 – 22 September 2016 with the theme 'Unlocking Your Potential As Librarians'. It was held in conjunction with the Association's 30th anniversary. The conference aimed to increase public awareness of the value, impact and sources provided by libraries and the library professionals.

The conference was officially opened on 20 September 2016 by Yang Berhormat Pehin Orang Kaya Indera Pahlawan Dato Seri Setia Awang Haji Suyoi bin Haji Osman, Minister of Education.

Around 100 local librarians and information officers participated in the conference which began with a pre-conference workshop

on Leadership for Librarians facilitated by Pengiran Haji Mohd Shahminan bin Pengiran Haji Sulaiman, a Senior Librarian from Brunei Islamic Library of the State Mufti Department. Professor Dr. Chutima Sacchanand from Sukhothai Thammathirat Open University, Thailand presented a keynote paper entitled 'Looking Forward Beyond Books - What It Takes To Be A 21st Century Librarian'.

The conference concluded on 22 September 2016 with the presentation of certificates to the speakers and moderators by Pengiran Dr. Haji Md. Esa Al-Islam bin Pengiran Haji Md. Yunus, Assistant Vice-Chancellor (Industry & Services), UTB.



ENABLING COTTAGE INDUSTRY ENTREPRENEURS



A total of 79 participants that comprised of Village Consultative Council representatives and private cottage entrepreneurs from the four districts and also trainees from the Brunei Arts and Handicraft Training Centre successfully completed the Product Development and Commercialization Training Programme in UTB. The participants were divided into four groups and each group completed their respective training sessions in September, October, November and December of 2016.

The customised five-day training programme which started on 29 August 2016 for the first group was organised by UTB as one of its community engagement projects. The programme was designed specifically for cottage industry entrepreneurs who were involved in the

manufacturing and weaving sectors.

The aims of the programme were to equip the participants with knowledge and skills that would enable them to produce more creative and innovative products that would have a better competitive edge in the market, encourage cooperation and knowledge transfer between various agencies to empower cottage enterprises and support the economic diversification efforts of the country.

The highly hands-on programme was facilitated by UTB academic staff and the modules delivered included Effective Communication, Creative Design, Manufacturing Processes and Systems, Internal and External Branding.



160 PAPERS PRESENTED IN BICET AND ACEC 2016

The 6th Brunei International Conference on Engineering and Technology (BICET 2016) was held from 14 - 16 November 2016 with the theme 'Recent Advances in Engineering Sciences and Technology'. The 9th ASEAN Civil Engineering Conference (ACEC 2016) was also held concurrently with BICET from 14 - 15 November 2016. The conferences were officially opened by Dato Paduka Awang Haji Suhaimi bin Haji Gafar, Deputy Minister of Development.

BICET is a biennial event for academicians, researchers and engineers from industry, research laboratories and universities to exchange information and engage each other. The conference was organized by UTB with The Institution of Engineering and Technology (IET) Brunei Darussalam and Oxford Business Group as Technical Co-sponsor and Research Partner respectively. Petrokon Utama Sdn Bhd and PTD Technology were the Sponsors.

ACEC 2016 was co-organised by UTB and the AUN/SEED-Net (ASEAN University Network/ Southeast Asia Engineering Education Development Network), supported by the Japan International Cooperation Agency (JICA). The ACEC is one of ten Regional Conferences in various engineering fields co-organised by the AUN/SEED-Net with different host member institutions in ASEAN annually. AUN/SEED-Net is a sub-network of the ASEAN University

Network (AUN) with 26 Member Institutions from 10 ASEAN countries and support from 14 leading Japanese Supporting Universities.

The first keynote paper of the conference entitled 'Long-term Management of Bridges - Fatigue Analysis of RC Bridge Deck Slabs' was presented by Professor Takashi Matsumoto, Professor in Engineering and Policy for Sustainable Development at Hokkaido University, Japan.

A total of 160 papers were presented across five symposia and 35 sessions: Symposium A - Bioresources, Agricultural and Mechanical Systems; Symposium B - Chemicals & Materials, Energy and Environment; Symposium C - Education & Training and Human Safety in Engineering; Symposium D - Information & Communications, Computational and Electrical Engineering; and Symposium E - Future Built Environment. The Civil Engineering component of BICET 2016, Symposium E, was held in conjunction with the ACEC 2016.

BICET 2016 also featured two other keynote presentations by Professor Chen Zhong, Professor in Materials Science and Engineering at Nanyang Technology University, Singapore, and Professor Won Yong-Hyub, Professor in Electrical Engineering at Korea Advanced Institute of Science and Technology.



COMPUTATIONAL INTELLIGENCE IN INFORMATION SYSTEMS CONFERENCE



The second Computational Intelligence in Information Systems (CIIS) Conference with the theme 'Improving Quality of Life Through Connectivity' was held from 18 to 20 November 2016. The conference was officially opened by Dr. Awang Haji Junaidi bin Haji Abdul Rahman, Permanent Secretary (Higher Education), Ministry of Education, on 18 November 2016.

Following the opening ceremony, a keynote paper entitled 'Artificial Intelligent (AI) Systems with Human Internal State Understanding: I know Who You Are and What You Think' was presented by Professor Dr Soo-Young Lee, from the Korea Advanced Institute of Science and Technology.

In his talk, Professor Lee first gave an introduction to Deep Learning, the currently-successful AI on speech and image recognition based on computational models of human auditory and visual pathways. He also discussed natural language processing as the next higher cognitive function. He went on to explain on higher cognitive functions such as situation understanding and decision making, and presented continuing efforts to understand unrepresented human mind, which may reside at the internal states of neural networks in the human brain. Special emphasis was given to human memory, trustworthiness,

and sympathy to others during interactions. The CIIS conference also featured two invited academic speakers, Professor Laszlo T. Koczy from Budapest University of Technology and Economics, Hungary, presenting 'Fuzzy Signatures – Theory and Application' and Professor Ali Selamat from Universiti Teknologi Malaysia, presenting 'Fuzzy Granular Computing Classifier with Particle Swarm Optimisation Learning Algorithms'. Industrial speakers from BAG Networks, CISCO, and Huawei also presented their respective papers.

A total of 62 submissions from 21 countries were received by the conference organiser and after a rigorous double-blind peer review process, 26 papers were accepted for the conference and published by Springer in the 'Advances in Intelligent Systems and Computing' book series. The papers were categorised into six tracks: Intelligent Systems and their Applications (10 papers); Internetworking, Security and Internet of Things (4); Data Mining and its Applications (4); Computational Complexity and Algorithms (2); Management Information Systems & Education Technology (4); and Creative Computing (2). The proceedings were edited by Associate Professor Dr. Somnuk Phon-Amnuaisuk, Dr. Au Thien-Wan and Dr. Saiful Omar from the School of Computing and Informatics, UTB.



MANAGEMENT RETREAT 2016

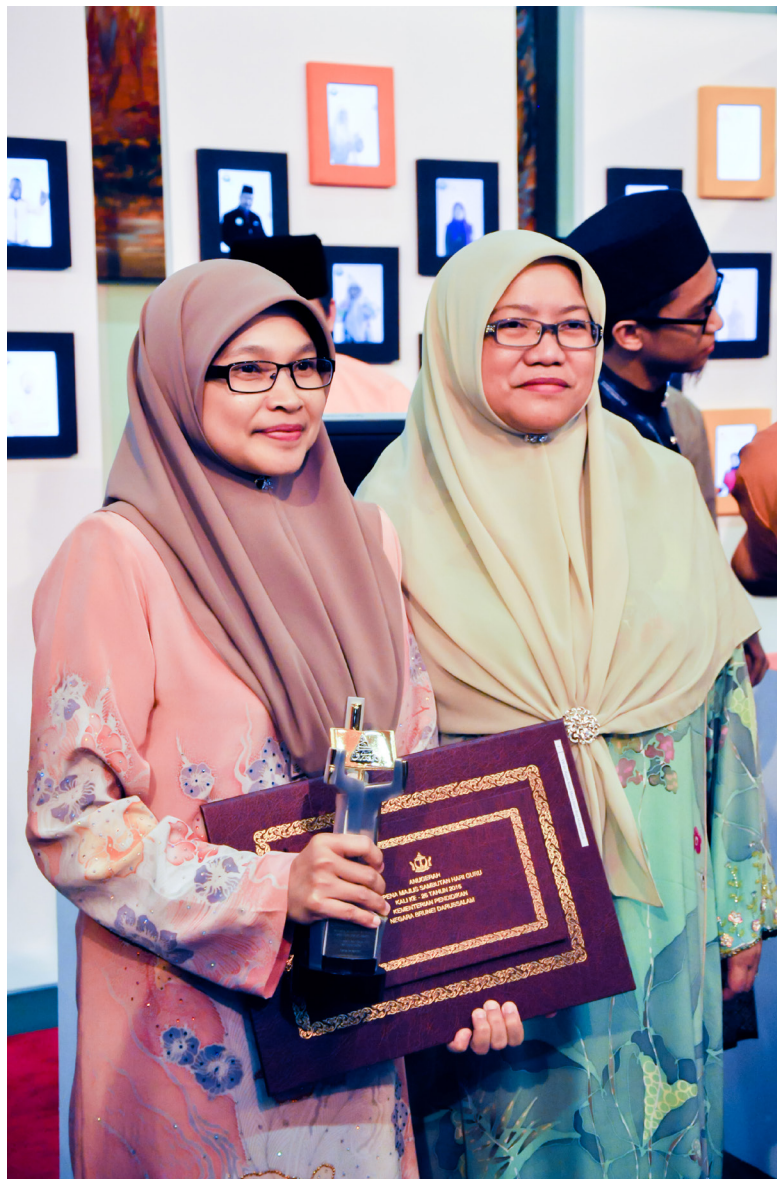
26 November 2016 - A one-day strategic management retreat was held at the Empire Hotel to reflect and discuss achievements, progress and challenges in the implementation of the University's strategic plan in 2016. The retreat was facilitated by the Vice-Chancellor, Professor Dr. Hajah Zohrah binti Haji Sulaiman and attended by the University's Principal Officers, Deputy Deans and Directors. Principal Officers who were also the owners of the strategic and operational initiatives also presented the status of the initiatives under their purview.



CONGRATULATIONS

29 September 2016 – Dr. Hajah Noor Maya binti Haji Md Salleh, Assistant Vice-Chancellor (Academic) of UTB, received the Teachers' Day 2016 Special Mention Award from His Majesty Sultan Haji Hassanal Bolkiah Mu'izzaddin Waddaulah ibni Sultan Haji Omar 'Ali Saifuddien Sa'adul Khairi Waddien, Sultan and Yang Di-Pertuan of Brunei Darussalam at the Teachers' Day Celebration event held at the International Convention Centre.

Dr. Noor Maya's specialist area is in Change Management. She was formerly the Dean of the UTB School of Business and has more than 20 years of teaching experience in UTB. She was also the first recipient of the UTB Staff Excellence Award under the Teaching Excellence category when the award was first introduced by the University in 2015.



STATA WORKSHOP FOR RESEARCHERS

15 October 2016 - Thirty academic staff attended a one-day workshop on 'STATA for Researchers: An Introduction'. The workshop was facilitated by Dr. Imran Alvi, Assistant Professor at the UTB School of Business. Dr. Alvi graduated in Econometrics and Mathematical Economics from the London School of Economics and Political Science, and holds an MPhil and DPhil in Economics from Balliol College, University of Oxford.

STATA is a powerful statistical and data analysis package that allows researchers to

analyse and draw conclusions from raw data. The workshop was aimed to introduce the software to researchers who have no previous knowledge of STATA.

The workshop was divided into three sessions. The first session introduced the STATA Window, Data Editor, Viewer, and Graphs. In session two, participants worked with importing, exporting, reporting and manipulation of data. In the third session, sample tests, randomized trials and hypothesis testing were made.



UTB WELCOMES...



Dr Safi Ullah Khan
Senior Assistant Professor,
UTB School of Business
Joined on 03 October 2016



Dayang Suzilawati binti Haji Hanafiah
Assistant Accountant,
Finance Office
Joined 01 September 2016



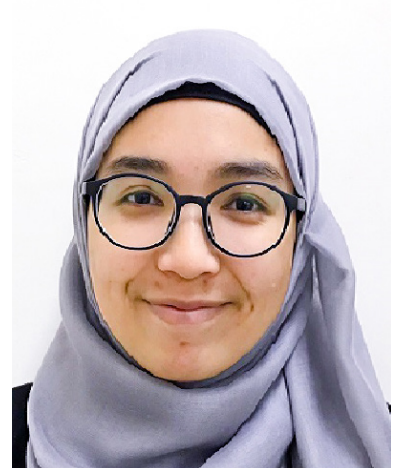
Dayang Nur Afiqah binti Metusin
Pekerja Tingkat II Bergaji Hari,
Registrar's Office
(Reward Development Section)
Joined 01 October 2016



Dayang Rodzy Yannah binti Rieke
Pekerja Tingkat II Bergaji Hari,
Quality Assurance Unit
Joined 01 October 2016



Dayang Rahimatushukriyah binti Mohammad Rafie
Lab Assistant
(for Mechanical Engineering)
Joined 22 October 2016



Dayang Nur Amalina binti Awang
Lab Assistant
(for Civil Engineering)
Joined 01 November 2016

UTB WELCOMES...



Awang Mohammad Aqil Fikry bin Haji Mohd Shafiee
Lab Assistant
(for Civil Engineering)
Joined 10 November 2016



Dayang Nooraslezan binti Ali
Assistant Registrar,
Registrar's Office
(Academic Section)
Joined 01 November 2016



Dayang Izzah Hazirah binti Haji Adi Othman
Assistant Registrar,
Vice-Chancellor's Office
Joined 01 November 2016



Awang Shahmauluddin bin Haji Shahlehi
Assistant Registrar,
Faculty of Engineering
Joined 01 November 2016



Awang Mohamad Shah @ Muhammad Lutfi Hadi bin Haji Asmat
ECA Officer,
Student Affairs
Joined 12 November 2016

UTB BIDS FAREWELL TO...



Madam Thulasimani Munohsamy
Lecturer,
Centre for Communication,
Teaching and Learning
01 July 2008 – 30 September 2016



Mr. Soh Seng Hu
Senior Lecturer,
UTB School of Business
08 November 1998 – 07 November 2016



Awang Md Safiuddin bin Abdullah
Clerk,
Registrar's Office
17 May 1983 – 28 December 2016

UTB STUDENTS DOMINATE BICTA 2016

9 September 2016 – UTB students won four prizes in different categories at the Brunei ICT Awards 2016.

UTB won the Tertiary Project Category with 'DFMS – Deployable Flood Monitoring System' by Qamaruzzaman bin Haji Affandy. In the same category, the 'ITB Smart Shower 2.0' project by a five-member team led by Matius Anak Belayan won second place.

In the ICT Industry category, two UTB students Md Dzulkhaim Ilham Haji Md Yassin and Meisur bin Hamid formed a startup company Newgate Plus and invented a blood monitoring application called 'First Blood'. This project won second place in the category.

The Special Award for Emerging Technology was awarded to the 'Twitter Sentiment Analysis'

project by Ak. Md. Syarif bin Pg. Haji Md. Yussop. This award was presented to the most advanced application software, hardware or its combination that relates to various emerging technologies such as Internet of Things, Big Data, Disruptive Technologies, and Wearable Technologies.

Introduced in 2004, BICTA is an annual competition hosted by the Ministry of Communication with the support of the Authority for Info-Communication Technology Industry Brunei Darussalam and the Infocom Federation Brunei. The aim of the competition is to stimulate innovation and creativity in the ICT Industry amongst individuals, students and associations including SMEs.



SMART SHOWER DEVICE WINS MERIT AWARD AT APICTA

The 'ITB Smart Shower 2.0' project received the Merit Award in the Tertiary Category at the Asia Pacific ICT Alliance (APICTA) Awards held from 2-5 December 2016 in Taipei. 'ITB Smart Shower 2.0' is the brainchild of former UTB's Civil Engineering undergraduates: Matus Anak Belayan, Nur Syamimi Qurratu'Ainee binti Mohd Noh, Chang Wei Hau, Tan Keh Guan and Tony Chieng Tiew

Loong. Receiving the award in Taipei was Matus Anak Belayan, the group leader.

The 'ITB Smart Shower 2.0' is a water saving showerhead that automatically adjusts the flow rate of water for different stages of a shower such as during rinsing and soaping, to minimise water usage per shower. The device



controls the flow rate efficiently and lets users shower longer but still uses far less water than usual. The showerhead also has a built-in micro hydro-generator that generates electricity for the showerhead system.

Prior to competing in APICTA, the invention won second place in the Brunei ICT Awards (BICTA) 2016 in the Tertiary Project Category. BICTA is a component of APICTA and the winners in BICTA were invited to represent Brunei Darussalam in APICTA.

APICTA Awards is an international awards program which aims to increase the ICT awareness in the community, and assist in bridging the digital divide. The program also aims to stimulate the ICT innovation and creativity, promote economic and trade relations, facilitate technology transfer, while providing networking and product benchmarking opportunities to the innovators and entrepreneurs in the region.

APICTA consists of 17 economies that include Australia, Bangladesh, Brunei Darussalam, China, Chinese Taipei, Hong Kong, Indonesia, Japan, Macao, Malaysia, Myanmar, Pakistan, Singapore, Sri Lanka, Thailand, Vietnam and Nepal.



YOUTH ENTREPRENEURSHIP COMPETITION



22 September 2016 - Haji Mohammad Loqman Al-Hakim bin Haji Hamdan won first place with his business pitch 'Al-Huffaz Management' at the finals of the Youth Entrepreneurship Competition organized by the Economy and Entrepreneurship Executive Committee of the UTB Student Representative Council.

Second place went to 'Teachme Guru' a business pitch by Azim Yusof, Nadirah Julaihi, and Habibah Mahadi. Third place went to Muhammad Hafizuddin bin Haji Rosli with his business pitch 'Powergo'.

After the preliminary round, 15 out of 25 contestants made through to the finals and presented their business ideas to the audience

and judges. The Vice-Chancellor of UTB, Professor Dr. Hajah Zohrah binti Haji Sulaiman presented awards and certificates to the winners and participants.

The purpose of the competition was to expose students to the effective ways of developing and pitching a business model idea. It also aimed to help students across the country to expose their business ideas and to encourage youth to participate in pitching ideas. Darussalam Enterprise (DARE) helped kick-off the competition with a talk on 'Youth and Entrepreneurship' and also giving some lessons on entrepreneurship.

LEARNING FROM JAPANESE BUSINESSES

Two groups of undergraduates from the UTB School of Business were selected to take part in the Japan-East Asia Network of Exchange for Students and Youths (JENESYS) 2016 Programme.

The first group were in Japan from 25 October – 01 November 2016 under the ‘Logistics’ theme. The group visited Japan’s leading logistics company, Sankyu Inc. in Tokyo and Tomioka Silk Mill in Gunma Prefecture. The silk-reeling factory was built in 1872 and has become one of the symbols of Japan’s modernisation following the Meiji Restoration. They also visited the Takasaki University of Commerce, a private university founded in 2011 known for providing highly skilled human resources for a wide variety of industries, particularly the logistics industry.

The theme for the second group was ‘Small and Medium Enterprises’ and the programme took place from 12 – 20 December 2016. The group visited several companies, namely the Hyakugo Research Institute Co Ltd, a regional consulting; Bankyo Pharmaceutical Co Ltd, a manufacturer of skin care products; Seisakusho Co Ltd, a die and metal parts stamping company, and Tsuji Oil Mills Co Ltd, a vegetable oil manufacturer.

The objective of JENESYS programme is to promote mutual trust and understanding among the people of Japan and participating countries and regions, to build a basis for future friendship and cooperation. It also aims to promote a global understanding of Japan’s economies, society, politics and foreign policy.



COMPUTING STUDENTS ATTEND SAKAI- ASEAN WEEK

In conjunction with the Sakai ASEAN Week from 6 – 17 October 2016, the Sakai Government of Japan invited Science and Technology students from ASEAN to interact with residents, students, and businesses in Sakai, Japan. With the cooperation from Osaka Prefecture University, two students from the School of Computing and Informatics, Dk Siti Nur Khadhijah binti Pg Haji Ali Kumar and Siti Nur Asyiqin binti Md Shahrin attended the event to promote exchange of projects and collaboration.

At the opening ceremony of the Sakai ASEAN Week, the students introduced Brunei's culture to fellow students from ASEAN countries and Japan. The students also attended a symposium on global education in ASEAN.



INTERNATIONAL DAY 2016

15 October 2016 - International Day is an annual event organized by the Student Representative Council of UTB to celebrate the different cultures of various citizens in the university and to educate both local and international students about each other's culture. During International Day 2016, UTB international students showcased their elaborate national costumes, dishes and delicacies and delivered a brief presentation about their

respective countries. UTB has more than 30 international students from over 15 different countries. The event was attended by Joffry bin Haji Bungsu, Dean of Student Affairs as the Guest of Honour, and also representatives from foreign diplomatic missions in Brunei Darussalam.



INDUSTRIAL TALK ON IoT

13 September 2016 - A talk entitled 'Internet of Things (IoT) LoRaWAN™: Moving Beyond Disruption' was organised by the UTB School of Business. The talk was delivered by Dr. Thierry Lestable, the Vice Chairman of LoRa Alliance.

Dr. Thierry Lestable introduced LoRaWAN™ and its important role in the Internet of Things (IoT). The LoRaWAN™ is a Low Power Wide Area Network (LPWAN) specification intended for wireless

battery-operated Things in regional, national or global network. LoRaWAN™ target key requirements of IoT such as secure bi-directional communication, mobility and localization services. Dr. Lestable explained that LoRaWAN™ would provide seamless interoperability among smart Things without the need for complex local installations and gives back the freedom to the users, developers and businesses enabling the roll out of IoT.



COURTESY CALLS



6 December 2016 - Her Excellency Nicola Rosenblum, Australian High Commissioner to Brunei Darussalam was in UTB for a courtesy call to the Vice-Chancellor.



20 September 2016 - The Vice-Chancellor received a courtesy call from Mr. Erminio da Silva Pinto, Chargé d' Affaires of the Embassy of Timor-Leste to Brunei Darussalam.

UTB PARTICIPATES IN 12th QS-APPLE

UTB participated in the 12th QS-APPLE event from 22-24 November 2016 at the Putrajaya International Convention Centre, Putrajaya, Malaysia. The event was co-organized by Quacquarelli Symonds (QS), a leading international ranking institution, and Universiti Malaysia Perlis (UniMAP).

QS-APPLE annually convenes academics and policymakers under one roof to discuss a diverse range of topics including internationalization and other emerging models of learning in higher education. In previous years, conference locations have included Bali, Hong Kong, Kuala Lumpur, Manila, Seoul, Singapore, Taipei and Melbourne.

UTB participated in the QS-APPLE Exhibition and the Vice-Chancellor, Professor Dr. Hajah Zohrah binti Haji Sulaiman, delivered a presentation entitled '360o Students Model for Global Citizenship' in a

parallel session themed 'The Global Citizen'. The presentation described a formal approach for developing students into well-equipped global citizens through the 360o student model who would be marketable, socially and economically responsible, and possesses strong MIB values. The model provides a framework for creating stimulating learning environments and academic programmes that promote global citizenship education.

Haji Ady Syarmin Haji Md Taib, Director of International and Public Relations Office, and Dr. Lee Kok Yueh, Planning and Development Office Coordinator, also attended the conference.



PROTECTION AND RESEARCH OF THE KING OF BONI'S TOMB

12 October 2016 - In conjunction with the 25th anniversary of the establishment of diplomatic relations between China and Brunei Darussalam, the University hosted a talk on 'The Protection and Research of Tomb of The King of Boni' by Mr. Yang Xinhua, Director of the History and Culture Research Centre of China and Brunei.

In 1408, Maharaja Karna (Sultan Abdul Majid Hassan), King of Boni arrived in Nanjing, capital of China's Ming Dynasty, with a 150-member delegation and was warmly welcomed by China's Emperor. After his unfortunate illness and passing away in Nanjing, the King was buried there. The King's tomb was rediscovered in 1958 and the Chinese government carried out a series of renovations to the tomb. Now,

the Tomb of the King of Boni has become an important symbol of the historical friendship between China and Brunei Darussalam.

Mr. Xinhua is a leading culture and museums research expert in China, and a former Deputy Director of National Relics Department of Nanjing Municipal Government. His accomplishments include 68 books on various topics relating to Chinese history and culture, he has devoted himself to the protection and research of the Tomb of The King of Boni for over 30 years, and has published two books; 'The History of Tomb of the King of Boni' published in 1991, and 'Brunei: A Pearl on the Crown of the Tropical Kingdom' published in 2005.



KORBAN AND AQIQAH CEREMONY

15 September 2016 - A Korban and Aqiqah Ceremony was held to celebrate Aidil Adha. A buffalo and a goat were slaughtered, and the meat portions distributed amongst needy recipients from Kg. Rimba, as well as staff and students of UTB.

Ustaz Dr. Andas Haji Ismuhadi bin Abdullah from the Islamic Dakwah Centre delivered a religious talk on the proper ways of handling

and distributing Korban and Aqiqah meat. Ustaz Dr. Haji Ismuhadi also highlighted the virtues of performing Korban as a means of inculcating piety and seeking multiple rewards from Allah SWT.



NEW HIJRAH 1438

06 October 2016 - A religious talk was organised to commemorate the new year in the Islamic calendar. The talk was delivered by Ustazah Norhayati Binti Haji Abdul Rahman from the Islamic Dakwah Centre. The theme of the talk was 'Hijrah dalam Kehidupan Berlandaskan Sunnah'.

In the talk, Ustazah Norhayati elaborated on the contemporary application of Hijrah, which was a constant endeavour to resist negative tendencies within oneself. It was also important for

Muslims to emulate the Hijrah of Prophet Muhammad PBUH by embarking on personal transformation towards becoming better individuals with the sole intention to please Allah SWT.



MAULIDUR RASUL 1438H

12 December 2016 – More than 50 male UTB staff and students led by Pengiran Dr. Haji Md Esa Al-Islam bin Pengiran Haji Md Yunus, Assistant Vice-Chancellor (Industry and Services) took part in the annual national gathering and procession to mark Maulidur Rasul or the birth anniversary of Prophet Muhammad (pbuh) for the year 1438/2016. The theme for this year's celebration was '*Berwawasan Yang Berkat Dengan Bercontoh Kepada Rasulullah Sallallahu Alaihi Wasallam*'. Around 80 teams representing government ministries and departments, educational institutions and other organisations took part in the 4.3 km procession that began and ended at the Taman Haji Sir Muda Omar 'Ali Saifuddin in the capital.

(pbuh). The talk was delivered by Ustaz Abdul Rahman bin Haji Ajak. In his talk entitled '*Berakhlaklah dengan akhlak Rasulullah*', the speaker highlighted the benefits and rewards of remembering the Prophet (pbuh) through selawat and emulating the sunnah of the perfect and all-encompassing role model. The speaker also described the physical features, demeanours and personality of the beloved Prophet (pbuh) based on authentic traditions.

A religious talk was also held in UTB on 22 December 2016 to commemorate the birthday of the Prophet



CYCLING FOR HEALTH



A weekly cycling activity has been initiated at UTB to promote healthy lifestyle among staff and students. The one-hour cycling activity that takes place on every Wednesday afternoon is regularly led by the Vice-Chancellor of UTB, who also introduced the initiative. Cycling is a fun way to increase cardiovascular fitness, muscle strength and flexibility and also decrease stress levels.



RAISING AWARENESS ON ZIKA



The Zika Awareness Programme was initiated by the University to raise awareness on the Zika virus and ways to prevent it. A cleaning campaign was organised on 10 September 2016 within the campus to identify and eliminate potential mosquitoes breeding ground and inculcate the culture of cleanliness amongst staff and students.

A community outreach programme to increase awareness on Zika virus prevention amongst school children was also conducted on 01 October 2016 at Sekolah Rendah Abdul Rashid Tanjong Maya, Tutong. During the highly-interactive programme, members of UTB Student Representative Council performed a sketch entitled 'Cegah Zika' or 'Preventing Zika' and conducted a fun quiz to educate primary school students on ways to prevent the Virus and also the importance of taking care of the environment.

CHEMISTRY TEACHERS VISIT PCE




21 November 2016 - Thirty A-Level Chemistry teachers from Sixth Form Centres in Brunei visited the Petroleum and Chemical Engineering (PCE) Programme Area in UTB to understand the relevance of Chemistry in the context of Chemical Engineering as an academic programme and career option for students. During the visit, Dr. David Hassell and Dr. Maziyar Sabet gave presentations on Chemical Engineering, and Chemistry in Chemical Engineering respectively, followed by a tour of the laboratories.

EUREKA CAMP PARTICIPANTS VISIT UTB



6 December 2016 - A total of 41 participants and volunteers from the Eureka Camp visited UTB as part of the science camp programme. The aim of the visit was to expose the young participants to science and technology at an early age. The group visited the Mechanical Engineering, Electrical and Electronic Engineering, Petroleum and Chemical Engineering Labs, and Civil Engineering Labs. The camp was a school holiday programme organized by the Oil and Gas Discovery Centre (OGDC).



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