

2014

Rumah PDKA

Akademik

penyelidikan & Inovasi

Memposisi

Perkhidmatan



USM UNIVERSITI
SAINS
MALAYSIA

PUSAT PENGAJIAN
KEJURUTERAAN **AWAM**
SCHOOL OF CIVIL ENGINEERING

2014

P
STAF / PELAWAT

PUSAT PENGAJIAN KEJURUTERAAN
AWAM

UNIVERSITI SAINS MALAYSIA
PUSAT PENGAJIAN
KEJURUTERAAN
AWAM

www.civil.eng.usm.my

JANUARY 2014

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1	2	3	4
5	6	7	8	9 Perutusan Naib Canselor (page 1)	10	11
12	13 Langkor visit by monitoring team for water quality PROJEK BEKALAN AIR UNTUK MASYARAKAT KURANG MAMPU KAMPONGLANGKOR	14	15	16	17	18
19	20 Majlis Amanat Dekan PPKA 2014 (page 2)	21	22	23	24	25
26	27	28 Panel Seminar Ijazah Tinggi	29	30	31	

Akademik

penyelidikan & Inovasi

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Perkhidmatan

JANUARY

9

2014



Perutusan Naib Canselor

JULAT PEMBERAT

USM

Majlis Amanat Dekan



JANUARY

20

2014



	Akademik	Penyelidikan dan Inovasi	Memposisi	Perkhidmatan
Akademik	30-55%	25-40%	10-20%	5-20%
Pegawai	5-20%	40-60%	10-20%	10-30%
		10-15%	5-10%	50-90%
		30-40%	5-10%	10-40%



PUSAT PENGAJIAN KEJURUTERAAN AWAM



Wawasan USM

Transformasi Pendidikan Tinggi untuk Kelestarian Hari Esok

Misi USM

USM merupakan universiti perintis, intensif penyelidikan rentas bidang yang memperkasakan bakat masa depan dan mengupayakan golongan terkebahawah demi mentransformasi kesejahteraan sosioekonomi mereka

USM's Vision

Transforming Higher Education for a Sustainable Tomorrow

USM's Mission

USM is a pioneering, transdisciplinary research intensive university that empowers future talent and enables the bottom billions to transform their socio-economic well-being

Memastikan Kelestarian Hari Esok | Ensuring a Sustainable Tomorrow



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Vision

Transforming Higher Education for a Sustainable Tomorrow

Mission

To nurture and sustain excellence in

- i. delivering comprehensive education;
- ii. imparting knowledge;
- iii. exploring frontiers of technology, and
- iv. providing services to the industry and community, at the local and international levels, by applying
 - a. the most advance knowledge and leading expertise;
 - b. creating innovative ventures;
 - c. being truthful and
 - d. upholding USM's motto "WE LEAD"



Memastikan Kelestarian Hari Esok | Ensuring a Sustainable Tomorrow





Bengkel Pemantapan OBE



FEBRUARY
3-5
2014





*Mock Akreditasi :
Prof Ir Dr Siti Hawa Hamzah
Fakulti Kejuruteraan Awam
Universiti Teknologi MARA*

FEBRUARY
13-14
2014





FEBRUARY

19
2014



Briefing OBE by Dean



1
PPKA

SEMINAR ON AN INTRODUCTION
TO CIP AS HIGHER ORDER
SCHEME IN COMPUTATIONAL
FLUID DYNAMICS

FEBRUARY

25

2014

Method of characteristics (MOC)





FEBRUARY
26
2014



*Industrial Talk -
Cement & Concrete
Association of Malaysia*



1
PPKA

MARCH 2014

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1
2	3 Seminar on "The Use of Seismic Rubber Bearings for The 2nd Penang Bridge" (SesRUB 2014) (page XX)	4	5 i. Taklimat Financial Management (Bidding the gaps of PO12) Pr Sharifah Azman (page XX) ii. Peryerahan boucher BUKU 1 MALAYSIA (page XX)	6 guest lectures by Dr Tomofumi Koyama, from Geofront System Engineering, Kyoto University	7	8
9	10	11 ONE DAY WORKSHOP ON TERRAMETER LS (ELECTRICAL RESISTIVITY) AND TEM (TRANSIENT ELECTRO MAGNETIC)	12 i. Taklimat OBE kepada pelajar kampus kejuruteraan bersama Pejabat Kualiti (page X) ii. Latihan Kawad Kobakaran (page X)	13	14 Lawatan dan pemeriksaan Makmal oleh Dekan, staf akademik dan Penolong Jurutera	15
16	17	18	19 i. EAC / ISI (page X) ii. Forum Alumni dan IAP (page XX) iii. Meeting Bersama Alumni dan IAP (page XX)	20	21	22
23	24	25	26	27	28	29 Ampang Jajar Recovery project by Persatuan kejuruteraan Awam (CIVES)
30	31					

Akademik

penyelidikan & Inovasi

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MACRH
3
2014

Seminar on "The Use of
Seismic Rubber Bearings for
The 2nd Penang Bridge"
(SeisRUB 2014)
Dr Kamarudin Ab Malek
CEO of the Tun Abdul Razak
Research Centre (TARRC)





*Taklimat Financial Management
(Bridging the gaps of PO12)
Pn Sharifah Akmam*



MARCH
5
2014





Penyerahan Boucher Buku
1 Malaysia



MARCH
5
2014

MACRH
12
2014

Taklimat OBE kepada semua
pelajar kampus kejuruteraan
oleh
Prof. Ir. Dr. Md. Azlin Said

Anjuran:
Pejabat Kualiti

BORANG KEHADIRAN
Taklimat Akreditasi kepada Pelajar Kaji, Amali, Kitaran dan
12 Mac 2014 (Rabu)
2:30 hingga 4:00 PM
Dewan Kuliah 1001

Tarikh
Masa
Tempat

VIP

BIL

1	Prof. A
2	Prof. A
3	Prof. A
4	Prof. M
5	Prof. M
6	Dr. Nor

PENGERAMAH

Prof. Ir. Dr. Md. Azlin Md. Said



1
PPKA





MARCH
12
2014

Latihan kawad kebakaran kepada staf, pekerja kontrak dan pelajar



12 MARCH 2014

1
PPKA



12 MARCH 2014
Forum Alumni and IAP





12 - 13 MARCH 2014 *AEC Visit*



U·M UNIVERSITI
SAINS
MALAYSIA

KAMPUS KEJURUTERAAN (ENGINEERING CAMPUS)





12 - 13 MARCH 2014 *AEC Visit*





AEC Visit

MARCH
12 - 13
2014



1
PPKA



12 - 13 MARCH 2014

AEC Visit

KERAJAAN MALAYSIA
AKTA KILANG DAN JENTERA, 1967
THE FACTORIES AND MACHINERY ACT, 1967

Peraturan-peraturan (Procedures, Prosedur) (Kilang dan Jentera) Mengikut Seksyen 10(1) Peraturan 10(1)
The Regulations and Instructions (Procedures, Prosedur) of Factories and Machinery Regulations, 1970 Regulation 10(1)

Prosedur Kekerapan
BANDANG STIM

Prosedur ini dibuat oleh Jentera	
Ukuran gear (size & model)	
Tempat Terpasang/Installed	
Alamat/Place	

Program 10 Inspection Tables (Checking this form with the machine parts)

Dasar mesin gear (gear) mengikut Peraturan 10(1) Seksyen 10(1) Akta 1967.



2
PPKA

NAMA ALAT - ALAT
NO BAHU AL BAHU
NO SISI (SISI) 107
FABRIK TEBING
BARU - 107/108
NO PEKANAN - 2118

STANDARD OPERA

1. Turn the power
2. Open the lid and
3. Check water level
4. Load the material
5. Check and return
6. Press the STOP
7. Check the oil
8. Press STOP/ON
9. Press the operation
10. Check if operation
11. The lid can be open
12. Check the lid cover
13. Unload the material
14. Turn the power OFF
15. In order to clean

12 - 13 MARCH 2014 *AEC Visit*





USM

UNIVERSITI SAINS MALAYSIA

Vision

Transforming Higher Education
for a Sustainable Tomorrow

Mission

USM is a pioneering, transdisciplinary
research intensive university
that empowers future talent
and enables the bottom billions to
transform their socio-economic well-being

Bachelor of Engineering (Hons.)
(Civil Engineering)

Programme Objectives (PEOs)

PEO 1

To produce competent, creative and innovative graduates who are able to solve civil engineering problems within the global, societal and sustainable development contexts

PEO 2

To produce graduates with good leadership qualities and communication skill who are able to engage in engineering task both independently and via interdisciplinary team

PEO 3

To produce graduates with professional and ethical attributes

PEO 4

To produce graduates who are engaged in continuous pursuit of knowledge through research, continuing education and/or professional development activities

PEOs

www.civil.eng.usm.my



Bachelor of Engineering (Hons.)
(Civil Engineering)

Programme Outcomes (POs)

PO 1 Able to apply knowledge of mathematics, science and engineering fundamentals to the solution of complex civil engineering problems

PO 2 Able to identify, formulate and solve complex civil engineering problems using first principles of mathematics, natural sciences and engineering sciences

PO 3 Able to design solutions for complex civil engineering problems to meet specified needs considering public health and safety, cultural, societal, and environmental requirements

PO 4 Able to conduct investigation into complex problems using research based knowledge and appropriate research methods

PO 5 Able to create, select and apply appropriate modern engineering tools necessary for complex civil engineering activities, with comprehension of the limitations

PO 6 Able to apply reasoning informed by contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to professional civil engineering practice

PO 7 Able to appraise the impact of professional civil engineering solutions in societal, environmental contexts and sustainability development

PO 8 Able to apply ethical principles and commit to professional ethics and responsibilities and norms of civil engineering practice

PO 9 Able to communicate effectively on complex civil engineering activities with the engineering community and with society at large

PO 10 Able to function effectively as an individual, and as a member or leader in diverse teams and in multi-disciplinary settings

PO 11 Able to recognise the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change

PO 12 Able to demonstrate knowledge and understanding of engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multi-disciplinary environments

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PUSAT PENGAJIAN
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- II. imparting knowledge;
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 - b. creating innovative ventures;
 - c. being truthful and
 - d. upholding USM's motto "WE LEAD"

APRIL 2014

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1 Majlis Penyampaian Sijil Libatsama Komuniti USM	2 Lawatan ke Alor Setar melawat bangunan kayu semua pelajar tahun 3	3	4 Bengkel Open Ended Lab	5
6	7	8	9 Pumping Test Pengerujian telaga Projek FEES (page XX)	10 Mahasiswa turun sekolah : 30 pelajar tahun 3 SNKA Nurul Itfaq, Kuala Besut, Terengganu (page XX)	11 International Engineering Inventor & Innovation Exhibition (i-EN.VEX 2014) UNIMAP, Perlis (page XX)	12
13	14	15 Perkhidmatan pemeriksaan darah dan tekanan darah di Pusat Pengajian Kejuruteraan Awam	16 Career Talk 1: Mr Yap dari YTL (page XX)	17	18 International Engineering for Sustainability Conference (INESCO) 2014 – Eng Campus – organized by MPP	19
20	21 Lawatan akademik ke Pusat Insinerator Petang Langkawi (page XX)	22	23	24	25	26 Upacara Konvokesyen ke-49 Family Day 2014, PPKA – CIVES (page XX)
27	28	29	30 Civil Night: Majlis Makan Malam			

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penyelidikan & Inovasi

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9 APRIL 2014

*Pumping Test
projek FGRS
Lubuk Buntar*



APRIL
11-13
2014

*Mahasiswa Turun sekolah - 30 pelajar Tahun 3 -
SMKA Nurul Ittifag Kuala Besut Terengganu*



1
PPKA

International Engineering Invention & Innovation Exhibition
(i-ENVEX 2014) UNIMAP, Perlis

APRIL
11-13
2014



**'DEVELOPMENT OF A PORTABLE WATER SAMPLER'
CLINCH GOLD AWARD IN i-ENVEX 2014**



Congratulations to Dr Mohd Remy Rozainy and his team for invention of a portable water sampler which has managed to bring home a gold award at International Engineering Invention & Innovation Exhibition

Exhibition (i-ENVEX 2014) in the Agriculture, Environmental and Renewable Energy Category. i-ENVEX 2014 which were held at Universiti Malaysia Perlis (UniMAP) from 11/4/2014 until 13/4/2014 involved more than 500 participants from local and international universities.

Other members of the team are Mr Ali Huddin Ibrahim, Azura Abdul Rahman and Warid Wazien Ahmad Zailani. Special acknowledgement from research team to School Of Civil Engineering USM and all those who contributed to this success.





 YTL CORPORATION BERHAD
(Company No. 92647-H)
SINCE 1955



Building High Speed Rail Link Between KLIA & KL Sentral @ Only RM 25 million per km
One of The Cheapest High-Speed Rail Link's Ever Built
Cost Expense @ RM 450 million per km & London's Heathrow Express @ RM 157 million per km

APRIL
16
2014

Career Talk 1 - Mr Yap dari YTL





APRIL
21
2014



*Lawatan akademik ke Insinerator
Pulau Langkawi*





APRIL
26 - 27
2014

Family Day 2014
PPKA CIVES



1
PPKA



MAY 2014

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1	2	3
4	5 Mixed Mode Second Presentation	6	7 i. Lawatan cari Selokoh Model Khas Bukit Jeruni, Padang, Kedah (page XX) ii. Seminar on Design of Cold Formed Steel Section (page V)	8	9	10 PPKA Cemerlang di I EX 2014 (page XX)
11	12	13	14 i. Career Talk 2: E&P (Guest and Partners) (page XX) ii. WIDELY PLUS Seminar (page XX)	15 Jjian Pratikal Geoteknik (page XX)	16	17
18	19 Technical University of Munich –TUM (Asia) to explore U-2-U collaboration with USM	20	21 i. Career Discussion: Reynold Teng – Advanced Com ii. "Sustainable Infrastructures vs Infrastructures Sustainability" Prof. Ahmad Farhan Mohd Sadullah	22	23	24
25	26	27 Lawatan S.M. Kebangsaan Sg Petani, Kedah (page XX)	28 Taklimat Dekan dan Penyampaian Sg Dekan dan Penghantar (page XX)	29 Lawatan academic UTHM lead by Prof Aziz seeking collaboration in research	30	31

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MAY
7
2014

Lawatan dari Sekolah Modal Khas Jenun, Kedah



Seminar on Design of Cold Formed Steel Section

MAY
7
2014



PPKA CEMERLANG DI ITEX 2014:

Profesor Dr. Fauziah Ahmad, Prof. Madya Ahmad Shukri Yahaya dan Mohammad Tabarroki

KUALA LUMPUR, 10 Mei 2014 - Universiti Sains Malaysia (USM) meneruskan kecemerlangan dalam Pameran Rekapipta, Inovasi dan Teknologi Antarabangsa (ITEX) ke-25 dengan meraih tiga lagi anugerah khas.

Timbalan Dekan Institut Pengajian Siswazah yang juga pensyarah Pusat Pengajian Kejuruteraan Awam, Profesor Dr Fauziah Ahmad dianugerahkan Pingat Emas dan Pingat Istimewa :Vifotec Award For The Best

MAY
14
2014

Career Talk 2 - G&P (Gue and Partners)





1
PPKA



MAY
14
2014

Widely PLUS Seminar



15 MAY 2014
Ujian Pratikal Geomatik



MAY
27
2014

Lawatan dari S.M.K Baru Sungai Petani



MAY
28
2014

Dean Talk and
Deans List Award



JUNE 2014

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	2	3	4 PKA - I PRESS (page XX)	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19 Bengkel Pengurusan Untuk Staf Pentadbiran dan Teknikal (pages XX)	20 Khemah Kerja Ulu (page XX)	21
22	23	24	25	26 Projek bekalan air (2) Kg Sungai Tiang Task Bandung – Lawatan Tapak 1	27	28 Pembinaan Tadika Untuk Rumah Anak Yatim dan Makin Nur Kasih (page XX)
29	30					

Akademik

penyelidikan & Inovasi

Memposisi

Perkhidmatan

Kosmo!

SUARA KONTEMPORARI

Piala Dunia 2014
Brazil!
 12 Jun - 13 Julai 2014
 Kehebatan
AURAMEN
 SUPER ADVANCED
 www.aurawhite.com
 #1 LUBRIK TIRENS COLLEGE (M)

RABU 4 JUN 2014

● RM1 ● BIL: 855 TAHUN 9 PP13809/08/2012 (030437)

www.kosmo.com

Infiniti Perisian analisis risiko tanah runtuh

Perisian USlopeM digunakan untuk menganalisis keselamatan cerun berdasarkan data rekod kajian tanah daripada aspek geologi dan geomorfologi.

oleh HAFIZ AHMAD

Infiniti Perisian analisis risiko tanah runtuh

USM UNIVERSITI SAINS MALAYSIA

BERHENTI

KEJADIAN tanah runtuh memberi kesan terhadap infrastruktur dan kehidupan kawasan sekeliling.

PROF. Dr. Fauziah (tengah) percaya USlopeM mampu memberikan dalam menyelesaikan masalah di kawasan cerun.

Perisian kestabilan cerun inovatif yang dikenali sebagai USlopeM itu dianggap sebagai yang pertama seumpamanya di Malaysia. Ia turut membolehkan...



JUNE
19
2014

*Bengkel Pengurusan
untuk Staf Pentanbiran
dan Teknikal*



JUNE
20-27
2014

Khemah Kerja Ukur



JUNE
28
2014

Pusat Pengajian Kejuruteraan Awam telah berjaya membina satu telaga untuk keperluan komuniti Rumah Anak Yatim dan Miskin Nur Kasih Ulu Sepetang, Taiping, Perak.

Projek ini adalah kerja komuniti dengan bantuan dana daripada BJIM USM, Pusat Pengajian Kejuruteraan Awam, HELWA, Pusat Islam Kampus Kejuruteraan dan juga pihak luar. Pengaliran dilakukan dengan kedalaman telaga lebih kurang 15 meter. Pemasangan pam pula selesai dilakukan pada 2 Julai 2014 dengan beberapa ujian asas dilakukan supaya pam dapat berfungsi dengan baik.


Menurut Ketua Projek, Professor Hj. Nordin Adlan, projek ini dibuat susulan keperluan air yang banyak diperlukan oleh Rumah Nur Kasih dan kos air sedia ada yang tinggi.

Terdapat 54 penghuni di Rumah ini dengan 3 bangunan utama. Dengan itu, USM menawarkan bantuan kepakaran dengan menyediakan telaga ini untuk mengatasi masalah tersebut dan juga kepakaran USM untuk menganalisa air telaga ini dan membuat rawatan jika perlu. Dijangkakan dengan adanya telaga ini dapat meringankan beban kos operasi dan keselesaan penghuninya bertambah baik.





JULY 2014

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1	2  Pemasangan Pam di Perigi Rumah Anak Yatim Nur Kasih dan Ujian Kualiti Air	3 Mesyuarat projek Langkor bersama JAKOA, Renjer dan Jab. Kesihatan Negeri Perak,	4	5
6	7	8	9	10 i. Mesyuarat projek Langkor bersama JAKOA, Renjer dan Jab. Kesihatan Negeri Perak, ii. Majlis berbuka puasa Rumah Anak Yatim dan Miskin Nur Kasih, Ulu Sepetang	11 Perjumpaan "Sheng Geo Anaysis" (page XX)	12
13 Kerja-kerja penyelenggaraan projek bekalan air bersih kampung langkor (page XX)	14	15	16 Mixed Mode Final Presentation	17	18 Ceramah Ramadhan "Intipati Ramadhan"	19
20	21	22	23	24	25	26
27	28	29	30	31		

Akademik

penyelidikan & Inovasi

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JULY
11
2014

Perjumpaan "Sharing Gap Analysis"



JULY
13
2014

Penyerahan buku log untuk kerja-kerja penyelenggaraan dan tugas kepada penduduk kampung Langkor projek bekalan air bersih



1
PPKA





AUGUST 2014

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1	2
3	4	5	6	7	8	9
10 LAWATAN KSU I MOE KE PROJEK BEKALAN AIR BERSIH DI KAMPUNG LANGKOR, SUNGAI SPLT, PRAK (page XXX)	11 PPKA IN PRFSS (page XX)	12	13	14	15	16
17	18 Lawatan dari IIB, Bandung (page XX)	19	20 Bengkel Pengajaran Kursus Matematik dan Pengkomputeran (page XX)	21 Bengkel Fabrikasi alat teknikal (page XX) Taklimat oleh Pengarah EAD	22 Lawatan dan Perbincangan bersama Dr Wesam Palesotinc (page XX)	23
		Novel Research & Innovation Competition (NRIC) 2014 (page XX)				
24	25	26	27	28	29 Kobe Univ, Gooal Lin, Yasuo Tanaka, BRUNSFELD Prof., Ceutech Engineering (page XX)	30
31	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="background-color: #00AEEF; color: white; padding: 5px 15px; border-radius: 5px;">Akademik</div> <div style="background-color: #00B050; color: white; padding: 5px 15px; border-radius: 5px;">penyelidikan & Inovasi</div> <div style="background-color: #D9534F; color: white; padding: 5px 15px; border-radius: 5px;">Memposisi</div> <div style="background-color: #800080; color: white; padding: 5px 15px; border-radius: 5px;">Perkhidmatan</div> </div>					



SUNGAI SIPUT (U), 10 Ogos 2014 – Projek bekalan air bersih untuk masyarakat orang asli Kg. Langkor, Sg. Siput (U), Perak akan diangkat menjadi antara projek komuniti contoh yang menepati strategi lautan biru kebangsaan (NBOS).

Projek inisiatif USM tersebut adalah bagi menyalurkan bekalan air bersih kepada penduduk Kampung Langkor yang meliputi 23 buah rumah dengan isi rumah seramai 141 orang.



Lawatan KSN II ke projek bekalan air bersih NBOS-UCTC Kampung Langkor, Sg. Siput.

AUGUST
10
2014



SUARA KONTEMPORARI

Kosmo!

11 Ogos 2014 KOSMO

Penduduk Orang Asli terima air bersih

SUNGAI SIPUT - Penduduk Orang Asli suku Temiar di Kampung Langkor di sini akhirnya menerima bekalan air bersih selepas lebih 20 tahun menggunakan sumber air yang tidak ditapis menerusi projek bekalan air bersih yang diusahakan Universiti Sains Malaysia (USM).

Ketua Setiausaha Kedua Kementerian Pendidikan, Datuk Seri Ir. Dr. Zaini Ujang berkata, bekalan air bersih di bawah Projek Pusat Transformasi Komuniti Universiti, USM di bawah seliaan Kementerian itu sangat bermakna kepada kehidupan harian penduduk Kampung Langkor yang mempunyai seramai 141 penduduk dari 27 buah rumah.

"Sebelum ini Kampung Langkor menggunakan sumber air sungai yang mudah tercemar oleh racun rumpai dan bahan kimia daripada aktiviti pertanian di ladang-ladang kelapa sawit yang 'berdekatan," katanya kepada *Bernama* selepas melakukan tinjauan ke Projek Bekalan Air Bersih di sini semalam.

Katanya, projek itu hanya memakan masa 16 hari untuk siap sepenuhnya selain kos pembinaannya yang murah. Zaini memberitahu, projek tersebut diyakini mampu dikembangkan ke seluruh negara malah ke peringkat antarabangsa dengan kepakaran pensyarah dan juga kakitangan USM.



ZAINI (dua dari kiri) bersama Naib Canselor USM, Prof. Dr. Aziz Tajuddin (empat dari kiri) dan wakil penduduk Orang Asli, Nalib Alang (kiri) membuka injap paip bekalan air bersih di Kampung Langkor, Sungai Siput, Perak semalam.



AUGUST
18
2014

*Lawatan daripada IBT,
Bandung, Indonesia*





On 19th - 21st August 2014, a research team from School of Civil Engineering, led by Dr Mohd Remy Rozainy won two awards at Novel Research & Innovation Competition (NRIC) 2014. NRIC is a competition for undergraduate student, which enables them to share their talent and creativity with industries. This year, more than 180 groups of participants from local and international universities were involved in this competition.

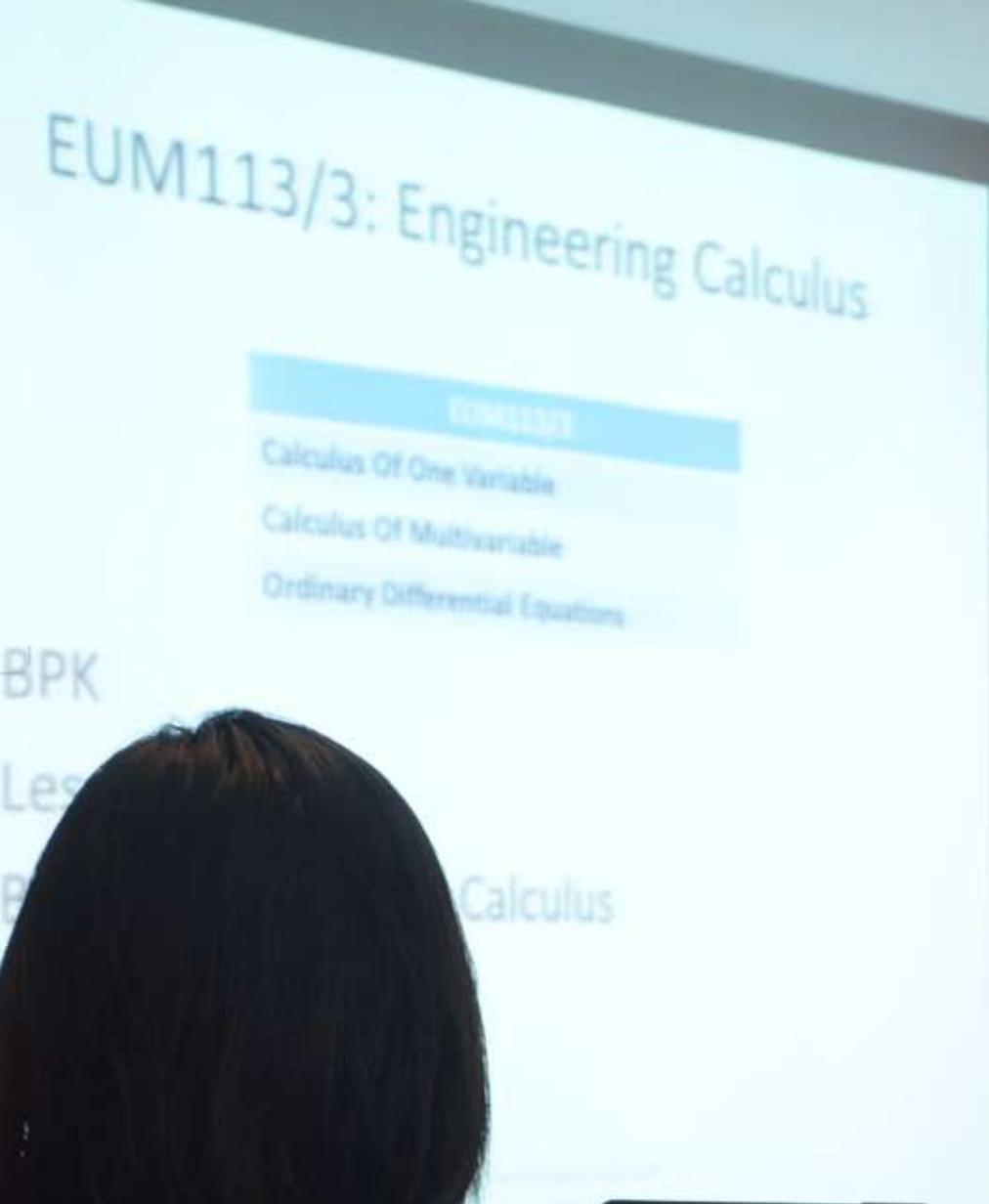
This team won the gold medal and creativity award with their research title 'ALLi- Development of a Lightweight Portable Water Sampler'. Other members of the team are Mr Alihuddin Ibrahim, Azura Abdul Rahman, Warid Wazien Ahmad Zailani and Mohd Zuhilmi Abdul Latif



AUGUST
19-21
2014

**Success at NRIC 2014:
ALLi won two award**





*Bengkel Pengajaran Kursus
Matematik dan Pengkomputeran*

AUGUST
21
2014



*Bengkel Fabrikasi untuk
staf teknikal*



AUGUST
20 - 21
2014





PUSAT PENGAJIAN KEJURUTERAAN AWAM



*Lawatan Dr Wesam
Palasetine*

AUGUST
22
2014



*Kobe Univ. Global Link.
Yasuo Tanaka, BRUNSFIELD Prof., Geotech. Engineering
Dept. of Civil Engineering, UTAR, KL Campus*

AUGUST
29
2014





SEPTEMBER 2014

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1	2	3 Majlis Sambutan Siswa Lestari 2014/15 (page XX)	4 Program Siswa Lestari 2014/15 di PKA (page XX)	5 Sambutan Mixco Nasa (page XX)	6
7	8	9 Lawatan ke Makmal Bersepadu bersama Dekan dan Timbalan Pengarah, Jabatan Pembangunan	10	11	12	13
14	15	16	17 'Open Ideas Competition 2014 - IC-IDC' - M SSA (page XX) Lawatan akademik ke Logi Rawatan Sisa Pepejal Jelutong (page XX)	18	19 Honest Early Strength Concrete Cube Competition (HESCCC2014) (page XX)	20
21	22	23	24	25	26	27
28	29	30				

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3 SEPTEMBER 2014

Majlis Sambutan Siswa Lestari sidang akademik 2015/2015



Pusat Pengajian Kejuruteraan Awam menerima seramai 71 pelajar baharu bagi mengikuti Semester 1 Sidang Akademik 2014/2015. Satu majlis khas di adakan untuk mereka terutama untuk pertemuan pertama mereka dengan para pensyarah dan staf lain di Pusat Pengajian.

Pelajar diberikan taklimat awal oleh Dekan Pusat Pengajian, tayangan video dan kemudiannya sesi fotografi bersama. Taklimat awal ini amat penting kepada pelajar untuk mereka kenalpasti langkah seterusnya selepas mendaftar diri.

Selepas sesi fotografi, pelajar naik ke Bilik seminar 2 untuk bersarapan bersama staf dan diberikan kepada beberapa kumpulan khas yang akan dikendalikan oleh beberapa pensyarah untuk setiap kumpulan. Pelajar-pelajar kemudiannya di berikan taklimat akademik oleh Timbalan Dekan Akademik, Prof Madya Dr. taksiah A. Majid di Bilik seminar 1.



SEPTEMBER

4
2014

Majlis Sambutan Pelajar Baru Pra-Siswazah sidang akademik 2015/2015



1
PPKA

SC
PUSAT PENGAJIAN KEJURUTERAAN
AWAM

4 SEPTEMBER 2014

WELCOME NEW STUDENTS
SCHOOL OF CIVIL ENGINEERING

U.S.M. UNIVERSITI SAINS MALAYSIA
PUSAT PENGAJIAN KEJURUTERAAN AWAM
SCHOOL OF CIVIL ENGINEERING

WE
LEAD



The School of Civil Engineering USM had organized an orientation program for the new MSc. mixed-mode students in Structural Engineering and Environmental Engineering. The response was very encouraging and the orientation program was filled with a welcoming speech by the Dean, Prof. Dr. Ahmad Farhan Mohd Sadullah. This program was followed with a briefing by the Deputy Dean (Research), Assoc. Prof. Dr. Choong Kok Keong, an introduction to the course structure by the Academic Program Chairman, a visit to the laboratory, and the program concludes with an online course registration session.

This orientation program helps the student in understanding the MSc. programmes and at the same time introducing School of Civil Engineering background, achievement and success that has been obtained. The speech delivered by the Dean among others hopes a high achievement in education and research by the new batch of students.

New mixed mode and research students intake 2014/2015 will follow a series of events held at the center of learning and the Institute of Postgraduate Studies (IPS).



Orientation Programme For Master of Science by Mixed Mode intake 2015/2015

SEPTEMBER

5

2014



Congratulations to the USM teams that won the 3rd prize (RM 5,000) for Malaysian Structural Steel Association (MSSA) 2014 Open Idea Competition. USM had sent 3 groups for this competition and 2 of these groups were shortlisted for the top 10 out of 60 groups overall from all over the public and private higher learning institutions that participating.

USM teams are the collaboration of the undergraduate students from School of Civil Engineering and School of Housing Building and Planning. The primary intention of this design competition is to provide students of architecture and structural engineering in Malaysia with the unique opportunity of collaborating in a building design that employs steel as the main structural and finishing material. It is for these architectural and structure engineering students to grasp the fact that building design does not lie within the jurisdiction of the architect or structure engineer individually, but it is the means for both to arrive at a meaningful realization of both architectural fascination and structural actualisation. It aims to bridge the gap between the teaching of architecture and structural engineering.

This year's MSSA/CIDB student competition was called for the design of the Innovative Community-Disaster Convertible Centre (iC-Dcc). The main concept of the Innovative Community-Disaster Convertible Centre (iC-Dcc), is to provide a community centre for the residents of a village/suburb/town. On regular days it functions like any other community centre, but once a disaster (flood/haze/storm/landslide/epidemic) strikes it ceases to be a community centre and immediately becomes a disaster relief facility: it shall now serve as both 'Transitory Accommodation for Disaster Victims' as well as an 'Operation and Distribution' base.

SEPTEMBER

16
2014

MSSA Open Idea Competition 2014





SEPTEMBER

17
2014

Lawatan Akademik Logi Rawatan, Jelutong, Penang



Students of the School Civil Engineering (PPKA) have again made USM proud for their success in the Highest Early Strength Concrete Cube Competition (HESCCC 2014) held at Faculty of Civil Engineering, Universiti Teknologi MARA on 19–20 September 2014 in conjunction with International Construction Week.

A team composed of Liew Kok Kei, Chong Kim Wee, Lau Pi Hung and Vincent Soh Hang Guat has won Special Award for Most Efficient Team.

The other participating team from PPKA composed of Chiew Lerk Qing, Cheong Kah Win, Chun Jan Bong and Tee Yi Cong. Both teams have demonstrated exemplary level of creativity, problem-solving skills and teamwork.

The competition was jointly organised by American Concrete Institute Kuala Lumpur Chapter (ACI-KL Chapter), Institute for Infrastructure Engineering and Sustainable Management (IIESM), Universiti Teknologi MARA (UiTM) and Concrete Society of Malaysia (CSM). A total of 45 competing teams from universities, polytechnics and industries took part in this yearly competition. The objectives of the competition were to encourage students, researchers and industry players to put on their creativity and technical skills to produce very high strength concrete at early age and optimum cost, create awareness on the versatility in producing high early strength concrete and serve as an interaction platform among students, NGOs and concrete industry players.

PPKA students awarded most efficient team in Highest Early Strength Concrete Cube Competition (HESCCC 2014)

SEPTEMBER

19-20
2014



1
PPKA

OCTOBER 2014

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1	2 Lawatan Peajar Pc teknik Jngku Omar Ipoh (page XX)	3 Perancangan MOD CUB (page XX)	4
5	6	7	8 A technical talk on "Precast Concrete Technology" by Ir. Tan Geem Eng Engineering Director Rivo Precast Sdn. Bhd. (page XX)	9 University - Community Project Sunga Tiang, Gerik, Perak Visit 2 (page XX)	10	11
12	13	14	15 Persembahan LI group 1	16 Pilihanraya Kampus (page XXXX)	17	18
		Kursus Penggunaan Peralatan Meccal Lebuhraya kepeca Kedatangan Syarif at Kuala XXXXXXXXXXXXXXXXXXXX (page XX)				
19	20	21	22	23	24	25
GZ 2014 & HASTAG-V						
	Persada Kencana 2014 Viva chairman appreciation award 2014	Anugerah Kecemerlangan Kejuruteraan LEM 2014 (page XX)				
26	27	28	29 Persembahan LI group 2 Perundingan : So way Project Prof Ismail Abusari (page XX)	30	31 IBLC Pelajar Tahun 1 (page XX)	

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**Lawatan Akademik
dari Politeknik Ungku Omar**

OCTOBER

2

2014



OCTOBER
3
2014

Perbincangan MOU PPKA & CIDB



Technical Talk by
Rivo Precast Sdn. Bhd.

OCTOBER
8
2014

9 OCTOBER 2014

University-Community Project

Satu team pusat pengajian melawat Sg Tiang, Banding bersama pengarah kesihatan (Negeri Perak) – di selenggara oleh Prof Nordin – Khamis 9 Okt – Satu team pusat pengajian dijangka melawat Sg Tiang, Banding bersama pengarah kesihatan (Negeri Perak??) – di selenggara oleh Prof Nordin

**Kursus Penggunaan Peralatan
Makmal Lebuhraya Kepada
Staf Kuari XXXXXX Sdn Bhd**

OCTOBER
14-16
2014



16 OCTOBER 2014

Mahasiswa Memilih...Pilihanraya Kampus

Pusat Pengajian Kejuruteraan Awam mendapat berita yang membanggakan pusat pengajian apabila pelajar tahun 4 iaitu saudari Azura Abdul Rahman telah dipilih untuk menerima Anugerah Kecemerlangan Kejuruteraan daripada pihak United Engineer Malaysia (UEM). Saudari Azura membangunkan projek "Portable Lightweight Water Sampler for Various Water Bodies" di bawah seliaan Dr. Mohd Remy Rozainy Mohd Arif Zainol dan En. Ali Huddin Ibrahim.

Hadiah kecemerlangan ini dianugerahkan kepada pelajar tahun akhir berdasarkan kepada projek tahun akhir mereka yang memberi impak kepada dunia kejuruteraan. Anugerah UEM ini akan diadakan pada 21 Oktober 2014 bertempat di Mercuri UEM, KL Sentral. Antara tetamu kehormat yang dijemput hadir adalah Ahli-Ahli Lembaga Pemegang Amanah UEM, Naib Canselor USM, Dekan PPKA, pegawai-pegawai universiti dan pusat pengajian. Setinggi tahniah diucapkan kepada saudari Azura kerana sekali lagi membanggakan USM dan khususnya PPKA. Syabas.

Azura Dipilih Menerima:



"Anugerah Kecemerlangan Kejuruteraan UEM" 2014.

OCTOBER

21

2014



Azura Abd Rahman

Projek : Portable Lightweight Water Sampler for Various Water Bodies

PINGAT EMAS - International Engineering Invention & Innovation Exhibition (I-ENVEX2014)

PINGAT EMAS - Novel Research & Innovation Competition (NRIC2014)

ANUREAH KHAS - Creativity Award (NRIC2014)



M.S. TIME SERIAL NO. YEAR OF MFG. S.W.L. DONATI TEL NO. 192-791723 5 TON

29 OCTOBER 2014
Perundingan By Prof .Ismail
Spillway Project



Team Building and Leadership Camp

31 OCTOBER - 2 NOVEMBER 2014







NOVEMBER 2014

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1 TBC pelajar (page XXXX)
2 TBLC pelajar	3	4	5 THE 2-DAY WORKSHOP ON GEOPHYSICAL METHODS FOR GEO TECHNICAL AND GEHAZARD ENGINEERING 2014 (GeMEE 2014) (page XX)	6 Lawatan "Pelajar" ke ASM (page XX)	7 PPKA Intellectual Discourse Series 2/2014 Profesor Ir Mohd Nordin Adnan	8 Angkasa 2013 Pucuk at or Prize (page XX/XX)
			KONVOKESYEN KE 50 (page XX)			
9 KONVOKESYEN KE 50	10 Lawatan dari JITM Pahang (page XX) Award Road Eng. Association of Malaysia (REAM) (page XX)	11	12	13	14	15
16	17 National Conference on University-Industry-Community Engagement (page XX) Lawatan dari CIDB Kedah (page XX)	18 CAREER FAIR 2014	19 UEM visit to School of Civil Engineering to give talk and hire students	20 Short course di JKR KL oleh team highway	21 Team Building PPKAwam di Hotel Ascara resort Langkawi, Kedah. (page XX) Program lawatan orang gelandangan anjuran EXCO Kebajikan dan Kerohanian QVES	22
23 Team Building PPKAwam	24 Anugerah PERSAMA 2014 (page XX)	25	26 Final Presentation of "RIVO-PPKA Precast Concrete Competition 2014"	27	28	29
30						

Akademik

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NOVEMBER
5-6
2014



THE 2-DAY WORKSHOP ON GEOPHYSICAL METHODS FOR GEOTECHNICAL AND GEOHAZARD ENGINEERING 2014 (GeMGE 2014)



1
PPKA





Lawatan ke Akademi Binaan Malaysia



NOVEMBER
6
2014

Konvokesyen ke 50

IA GRADUAN
KESYEN USM
Bahagian Pengurusan Akademik
Jabatan

Tahniah di atas kejayaan pelajar-pelajar Pusat Pengajian Kejuruteraan Awam USM yang telah menamatkan pengajian mereka. Mereka telah menghadiri Upacara Konvokesyen USM Ke-50 untuk penganugerahan Ijazah masing-masing. Tahniah dan syabas kepada anda semua yang terlibat secara langsung atau tidak langsung sehingga mereka bergraduan.

NOVEMBER
5-9
2014

1
PPKA

Anugerah REAM

NOVEMBER

8
2014

Firdaus Razak has won **ANGKASA 2013 PUBLICATION PRIZE**

School of Civil Engineering PhD student Firdaus Razak has won ANGKASA 2013 PUBLICATION PRIZE in the form of RM2,000 for his MSc work. The prize was awarded by ANGKASA for his MSc thesis entitled "Evaluation of Land Cover Changes in Sultan Azlan Shah dam catchment Using Remote Sensing Techniques".

Congratulations to Firdaus and his supervisor Prof.Ir.Md. Azlin Md. Said.

-HADIAH PENERBITAN ANGKASA 2013 DAN PENYAMPAIAN HADIAH DI MAJLIS PELANCARAN PROGRAM "WORLD SPACE WEEK", 8 NOVEMBER 2014 DI PLANETARIUM NEGARA, KUALA LUMPUR



31 org staf yang terdiri dari Penolong Pendaftar, Penolong Pegawai Sains, Penolong Jurutera, Pembantu Makmal UiTM Pahang



Lawatan dari UiTM Pahang

NOVEMBER

10
2014

**Anugerah
REAM**

NOVEMBER

10
2014

**Tujuh (7) pelajar USM menerima sumbangan
Road Eng Association of Malaysia (REAM) :**

*Anuar Effendy Mat Iani
M Farhan M Noor
Siti Rohaya Jokefli
Chew Bean Guan,
Natasha A M Zulkipli
Nutfarhana A Adnan
M Asnizam Sazali*

**di 9th Malaysian Roda Conference 2014
Sunway Pyramid Conventin Center, PJ**

International Belgian and Trade Fair for Technological Innovation

NOVEMBER

16
2014

Prof Fauziah dan Prof Madya Ahmad Shukri, di International Belgian and Trade Fair for Technological Innovation kerana dianugerahi pingat emas untuk hasil penyelidikan mereka : USlope M.

Semua warga PPKA mengucapkan tahniah dan syabas

17-18 NOVEMBER 2014

National Conference on University-Industry-Community Engagement (UICE)

2 papers presented from PPKA by Prof Nordin (Langkor) and AP Taksiah (Taiping Ground Water by tube well project for Rumah Anak Yatim). 17Nov (Monday) - 18 Nov 2014 - UICE Conference in USM to be attended by Prof Nordin Adlan and Dr Taksiah Abdul Majid - each will present a paper - Prof Nordin on Langkor, Water supply for Orang Asli and Taksiah on ground water supply for Rumah Anak Yatim, Taiping by well

Lawatan dari Lembaga Pembangunan Industri Pembinaan Malaysia (CIDB), Kedah



NOVEMBER
17
2014







Program Team Building P.P.Kej. AWAM 2014

21-23 NOVEMBER 2014



Anugerah PERSAMA 2014

NOVEMBER

24
2014



Buku terbitan Penerbit USM tahun 2013 yang berjudul 'Theory of Structures' karya Taksiah A. Majid, Choong Kok Keong dan Mustafasanie M. Yussof telah terpilih menerima anugerah Sagu Hati Kategori Buku Karya Asli bagi Anugerah Persatuan Sains Matematik Malaysia (PERSAMA) 2014.

Majlis Anugerah diadakan pada 24 November 2014, jam 7:45 petang di hotel Grand BlueWave, Shah Alam, Selangor.

Pengarang akan menerima sijil dan wang tunai, manakala Penerbit USM akan menerima sijil penghargaan. Ketiga-tiga pengarang buku ini adalah daripada Pusat Pengajian Kejuruteraan Awam USM.

1
PPKA

Semua warga PPKA mengucapkan tahniah dan syabas

DECEMBER 2014

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1	2	3 VST BY PRESIDENT OF KYOWA ELECTRONIC INSTRUMENT (page XX) Perjumpaan Dekan dan Pelajar serta Majlis Penyampaian Sijil	4 Sidang Media dan pameran percepatan universiti penyelidikan (page XX)	5	6 FAMILY DAY (page XY) Program kelestarian Ampang Jajar – Anjuran 3C – Corporate Conscience Circle
7 PPKA in Press (page XX) Lawatan Staf Teknikal ke Makmal LUM (page XX)	8	9	10 Lawatan caripada UKM ANJUTRAF- BUKU NEGARA 2014 (page XXXX)	11 Lawatan Prof Dato' Ir Dr Hassan Bin Basri Pemeriksa Luar	12 PPKA Intellectual Discourse Series 2/2014 Professor Hamidi Abdul Aziz "Resolving solid waste problems- From Penang to Macau"	13 World Scientist Awards 2014 (page XXXX)
14	15	16	17 International Building Break Politeknik Jengka Omar (page XX)	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

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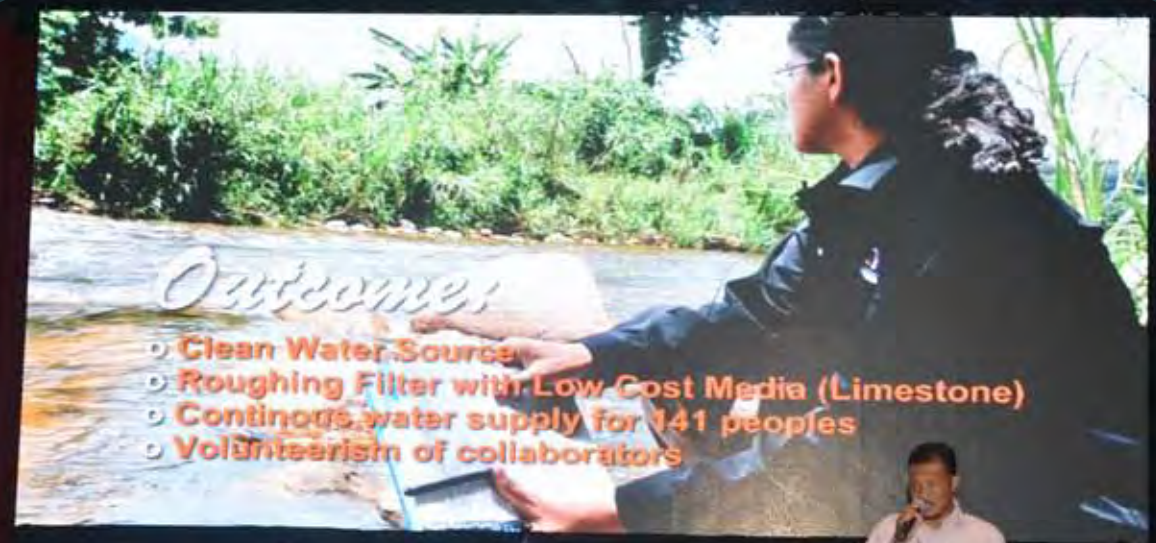
Perkhidmatan

3 DECEMBER 2014
Kyowa President visit PPKA



3rd December (Wednesday) Kyowa's president visit is on the 3rd December and at the moment only Pengarah can attend. I (Dean) have seek the agreement of Dean of EE, Dean of Mechanical to visit one of their labs related to Kyowa products. We need to also arrange visit to our labs. I (dean) intend to invite kyowa product users in the campus. I want to discuss further on this and seek your ideas.

4 DECEMBER 2014



Teknologi batu kapur hasilkan air bersih

Oleh: AZHARI ZAINOODDIN
Gambar: IHSAN USM

■ PULAU PINANG 6 DIS.

SIAPA sangka bermula dengan hatinya mencuba mengkaji kebolehan batu kapur untuk dijadikan bahan penuras atau penapis sumber air, akhirnya membawa kepada penghasilan alat penapisan air berkos rendah yang mampu memberi manfaat kepada penduduk luar bandar.

Tanpa perlu mengeluarkan kos mencecah jutaan ringgit, alat penuras berkenaan kini telah memberi manfaat kepada lebih 140 penduduk Orang Asli di Kampung Langkor, Pos Kenang, Sungai Siput Utara, Perak dalam mendapatkan bekalan air bersih untuk kegunaan harian.

Melalui projek dinamakan 'Bekalan air untuk masyarakat kurang mampu' yang diketuai Prof. Dr. Mohd. Nordin Adlan dari Pusat Pengajian Kejuruteraan Awam Universiti Sains Malaysia (USM) itu, masalah bekalan air bersih bagi penduduk terlibat kini dapat diselesaikan.

Menurut Mohd. Nordin yang merupakan pensyarah dalam pengkhususan kejuruteraan alam sekitar itu, kajian dengan mengambil batu kapur sebagai bahan penuras ter-cetus sebaik sahaja dimaklumkan masyarakat Orang Asli di Kampung Sungai Jang, Kuala Kubu Bharu, Selangor mahukan bekalan air bersih



PROF. DR. MOHD. NORDIN ADLAN

berkenaan," katanya ketika ditemui di Kampus Kerujuteraan USM di Nibong Tebal, di sini baru-baru ini.

Menurut beliau, suatu di luar jangkaan berlaku sebaik hasil kajian melalui penghasilan penuras kasar aliran mendatar menggunakan batu kapur menunjukkan kebolehan mengurangkan kekeruhan air dan kuman bawaan penyakit seperti escherichia coli.

Jelasnya, hasil yang diperolehi melalui ujian makmal dijalankan,

kekeruhan air dapat dikurangkan sehingga 95 peratus menggunakan kaedah penurasan kasar batu kapur berkenaan.

"Ujian pengurangan kuman dalam air sisa juga menunjukkan keputusan yang baik dengan pengurangan hampir 98 peratus kuman mengikut kadar aliran penurasan.

"Jadi melalui hasil kajian makmal ini, kita yakin kaedah penurasan menggunakan mineral batu kapur mampu menapis bagi menghasilkan air bersih untuk kegunaan masyarakat khususnya penduduk luar bandar dengan kos dan teknologi yang rendah," ujarnya sambil menunjukkan data-data diperolehi melalui kajian makmal yang dilakukan.

Katanya lagi, melalui projek yang dijalankan secara bersama oleh USM menerusi Bahagian Iarigan

dan Industri Universiti Perak dan Jabatan Orang Asli Perak, projek ini bertujuan untuk menyediakan bekalan air bersih bagi penduduk setempat.

Kampung Langkor, Perak, terletak agak sejajar dengan kampung Orang Asli lain.

Sehubungan itu, projek ini dijalankan bagi menzahirkan aliran air bersih kepada penduduk kampung.

patkan bekalan air melalui sungai yang mengalir di kawasan kebun kelapa sawit berhampiran kampung mereka.

"Air sungai berkenaan mungkin tercemar dengan baja dan racun serangga yang digunakan di kebun sawit, jadi bagi menangani masalah berkenaan projek ini akhirnya berjaya membekalkan air bersih untuk mereka.

"Melalui peruntukan sebanyak RM120,00 yang diberikan, setiap penduduk di Kampung Langkor kini mampu menikmati kemudahan air bersih berterusan apabila sebuah empangan kecil, rumah penuras aliran kasar dan sistem paip dibangunkan di kampung mereka," ujarnya.

Jelasnya, perkongsian kepakaran dan kerjasama melalui projek komuniti yang dijalankan dilihat memberi manfaat kepada



PROF. DR. MOHD. NORDIN ADLAN (Kiri) bersama penduduk kampung di Kampung Langkor, Pos Kenang, Sungai Siput Utara, Perak, melihat ke arah sistem penapisan air yang dibangunkan di kampung mereka.

CETUSAN HATI
MUBALIS RAKYAT

Mingguan Malaysia

...ka bermula dengan ha-
...cuba mengkaji kebole-
...kapur untuk dijadikan
...s atau penapis sumber
...bawa kepada peng-
...napan air berkos ren-



...jajanan yang
...dijalankan bagi menzahirkan
...aliran air bersih kepada pen-
...dik Orang Asli tanpa mengguna-
...klorin.

Mengambil kira beberapa ba-
...mineral yang terdapat di nega-
...di, saya mula terfikir mengapa
...kapur tidak pernah dijadikan
...n penuras dan dari situ tim-
...inginan untuk mengkaji batu



Family day P.P.Kej. AWAM 2014
Legoland, Johor Baharu
4-7 DECEMBER 2014



*Lawatan Staf Teknikal ke Fakulti Kejuruteraan AWAM
Universiti Teknologi Malaysia*



ANUGERAH BUKU NEGARA 2014

10 DECEMBER 2014

Kategori : BUKU UMUM TERBAIK
(KATEGORI KEJURUTERAAN)
Tajuk Buku : Theory of Structures
Penulis : Taksiah A. Majid, Choong Kok Keong & Mustafasanie M. Yusoff
Penerbit : Penerbit Universiti Sains Malaysia
ISBN : 978-983-861-567-9



**1st World Scientist Award
2014, Seoul Garden Hotel,
Korea Selatan**

DECEMBER

13
2014

Prof Fauziah akan menerima World Earth Sciences Grand Award dan PM. Shukri akan menerima World Environmental Sciences Grand Award.

Semua warga PPKA mengucapkan tahniah dan syabas

17 - 18 DECEMBER 2014

INTERNATIONAL BUILD & BREAK COMPETITION 2014

