

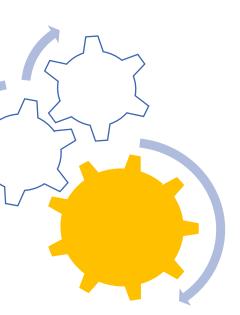
Faculty of Civil Engineering Bulletin Edisi 2017

Vision

To establish UiTM as a premier university of outstanding scholarship and academic excellence capable of providing leadership to Bumiputera's dynamic involvement in all professional fields of world-class standards in order to produce globally competitive graduates of sound ethical standing.

Mission

To enhance the knowledge and expertise of Bumiputera in all fields of study through professional programmes, research work and community service based on moral values and professional ethics.



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Message from the Rector

By: Noorul Iqhlima Najwa Ismail

Assalamu'alaikum dan Salam Sejahtera,

It is my hope to see Faculty of Civil Engineering UiTM Pulau Pinang grow and success. Faculty of Civil Engineering UiTM Pulau Pinang shall drive towards all aspects that not only focus on learning and teaching, but effort will be more toward research and innovation. The knowledge gained will be transformed into product output, thus helping to generate revenue and bring faculty as well UiTM Pulau Pinang's name to a higher level.

In line with UiTM's vision, Faculty of Civil Engineering UiTM Pulau Pinang will also drive towards becoming a superior and excellent academic based faculty in producing dynamic bumiputera in world-class professional fields, as to born competitive, global and ethical graduates. In addition, in line with the mission of UiTM Pulau Pinang, Faculty of Civil Engineering is in effort to enhance knowledge and expertise of the students in all areas through the delivery of professional programs, research and community service engagement based on noble values and professional ethics.





Faculty of Civil Engineering UiTM Pulau Pinang also very concern in producing highly employability graduates as it parallel with demands and requirements of the Ministry of Higher Education. The faculty is in working on increasing added value among the students by providing them relevant professional, skills, skills and societal disclosures in line with the majors and the field of civil engineering. Through these efforts, at the same time it can meet the criteria required by the employer as well as to make the graduates of Faculty of Civil Engineering UiTM Pulau Pinang as an asset to employers as well as to nation.



Message from the Rector

Besides, Faculty of Civil Engineering UiTM Pulau Pinang and the entire UiTM system will make Transformation Program (Trans4U) successful. This Transformation Program is very important for the UiTM system as it involves all structures and levels. I hope that all administrative and academic staff and students of Faculty of Civil Engineering UiTM Pulau Pinang will be able to work together with the Transformation program. An overall knowledge and understanding of this transformation plan is very significant in order for us to achieve the goals and the meaning of the transformation itself, so that UiTM becomes a world-renowned university.

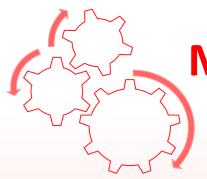


It is my great hope to see this bulletin become a medium to convey all information to visitors about Faculty of Civil Engineering UiTM Pulau Pinang. Hopefully it will help visitors to know more about the faculty. I pray that everything planned and arranged by the faculty can be realized.

Thank you.

PROF. MADYA DR MOHD FOZI ALI Rector Universiti Teknologi MARA 13500 Permatang Pauh, Pulau Pinang, Malaysia

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Message from the

Head Centre of Studies

Assalamu'alaikum dan Salam Sejahtera,

All praise is due to Allah S.W.T., the Most Gracious and Most Merciful. Peace and blessings be upon Prophet Muhammad S.A.W., his family and his companions.

Welcome to the Faculty of Civil Engineering, Universiti Teknologi MARA Pulau Pinang (FKAPP). Congratulations to FKAPP Bulletin Editorial Team on their effort to introduce the first volume of bulletin as a tool and network in spreading the programmes that have been conducted as well as the upcoming activities in the faculty.

Civil engineering field is the intelligence behind all the largest and most essential infrastructures around the world. To date, FKAPP offers two programmes; Diploma in Civil Engineering (EC110) and Bachelor Degree of Engineering (Hons.) Civil (Infrastructure) (EC221). Pursuing higher learning program especially in Bachelor of Engineering (Hons.) Civil (Infrastructure) at FKAPP will open great opportunity to discover the diversity and wellrewarded career as civil engineers that design, construct and manage the entire process of building the needs of nation and involve in systems that contribute to transportation, energy, water management, communications, waste management, earth monitoring and measurement networks.

FKAPP is established to serve the best for our students. It is a great pleasure to know that our graduates are builders of the nation. However, behind the scene, there are immense responsibilities of doing our parts



well in producing graduates who employable and equipped to serve in shaping the future of the world. In FKAPP, we strive for and sustainable academic balance excellence through Outcome Based Education (OBE) with full commitment from academic staff and management team. At FKAPP, the OBE implementation has started in year 2007. Since then, series of activities were conducted to develop Programme Educational Objectives (PEOs), Programme Outcomes (POs) and critically review the curriculum and syllabus with OBE approach. To ensure the curriculum is current and relevant, the university has appointed External Examiner and Industry Advisory Panels which comprise of professors and technical experts from several universities and industries, respectively. The curriculum review and improvement processes are periodically conducted to ensure the quality and relevance of the degree programme offered to students and to produce offered to students and to produce marketable

Message from the Head Centre of Studies

engineers in the country and around the globe. A continual quality improvement (CQI) is conducted every semester to improve the quality of teaching and learning of the programme.

To date, the total number of FKAPP academic staff are 107 (all full time academic staff) which consists of 4 Associate Professors, 49 Senior Lecturers and 54 lecturers; with 19 PhD holders and 6 with Professional Engineering (P.Eng.) qualification.

The academic staff are divided into four main divisions which are Water Resources and Environment System (WRES), Structural, Computing and Material (StrucM), Construction Engineering and **Project** Management (CEPM) and Geotechnical & Transportation Engineering (GeoTren) based on their academic strength and competencies. There are 11 laboratory staff to provide support in managing FKAPP laboratories.

On top of that, currently FKAPP has approximate numbers of 1200 students for both degree and diploma programmes. Students are trained to develop into multiskilled professionals possessing mental, intellectual and emotional fortitude to succeed. In order to develop the students' interpersonal, leadership, communication and organisational skills, they are encouraged to participate in various university activities.

It is believed that the involvement in organisations and extra-curricular activities will stimulate effective learning environments among students to live in a harmonious multicultural society and co-operate professionally in global community.

Therefore, I would like to express my gratitude to the faculty team members for their countless efforts and commitment in ensuring the successful of students and safeguarding endurance of the programmes.

This very first volume of FKAPP bulletin is focused on the issue of programme accreditation. The faculty is responsible to ensure that the quality of the program



Message from the Head Centre of Studies



delivery and graduates sufficiently fulfil the standard requirement of the Board of Engineers Malaysia (BEM) as well as keeping the programme accredited by Engineering Accreditation Council (EAC), to be in line with, Bachelor of Engineering (Hons) Civil (Infrastructure) was given 5 vears accreditation (2018 to 2022) in the discipline of Civil Engineering.

Hence, in achieving UiTM vision and mission, practising quality in academic and management is a must and should be taken into account. Being open-minded, positive and ready to allow new revolution is the aspect that should be in our mindset. It is hoped that this bulletin would boost the good spirit of the faculty. Finally, let's continue our best efforts, be united and always pray for the success of this faculty in every matter that want to achieve. May success be ours, always.

Thank you.

DR. KAY DORA BINTI ABD GHANI Head Centre of Studies Faculty of Civil Engineering Universiti Teknologi MARA 13500 Permatang Pauh, Pulau Pinang, Malaysia

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Aspiration Towards

Accreditation Success

By: Aimi Munirah Jalilluddin

Recently, the Faculty's programme of Bachelor of Engineering (Hons.) Civil (Infrastructure) (EC221) had undergone through the Engineering Accreditation Council (EAC) Accreditation Visit which was held for two consecutive days i.e. 16th & 17th of May 2017.



The event was held at the Blok Kuliah Blok Akademik (BKBA), Universiti Teknologi MARA Pulau Pinang. A total of nine visitors consisted of five members from the Engineering Accreditation Department (EAD) leaded as the panels for the EAC Accreditation Visit whilst four guests from the Board of Accreditation for Engineering and Technical Education (BAETE), Bangladesh as external observers. In presence also were the Campus Rector, Prof. Madya Dr Mohd Fozi Ali and the Dean Faculty of Civil Engineering, Prof Dr Azmi Ibrahim which the supporting system encouragement to enlighten the spirit of the faculty.

The EAC's accreditation visit this time around was a continuation stage to acquire extension accreditation for the EC221 programme which was last evaluated in 2015. The accreditation processes observe on several aspects of the

programme where the main focus is on the outcomes to ensure that graduates are adequately prepared to enter the engineering profession.

Detailed reviews of documentation is followed accordingly that comprises of eight main classifications which amongst them governing the programme's objectives, attributes of graduating students. the academic

atmosphere, the assessment method implemented, the facilities and several others.

Tentatively, the first day of the event started with opening remarks and short briefing by the Head of Evaluation Panel on the objective of the EAC Accreditation Visit to the faculty. It was continued with discussing the curriculum

design and quality system of the EC221 programme.

Later, randomly selected academic staff candidates were interviewed on several aspects regarding teaching, career development and others. In the evening, reviewing processes of displayed documents were carried out and supporting units and



facilities were also visited. At the end of day one of the EAC's visit, a short meeting session with students and external stakeholders was held.

On the second day of the EAC's visit, evaluation panels tours the engineering laboratories and associated facilities Subsequently, reviews on examinations, course materials and student works were completed followed with brief meeting with technical and administration staff.



Moreover, quality assurance system was also assessed in which Outcome Based Education (OBE) processes and implementations were evaluated comprehensively. At the end of the EAC's visit, an exit meeting was conducted with generally the EAC panels informing the faculty members on several aspects observed by all of the panels as a closing occasion to the two day event.



We are very grateful that our EC221 programme has fulfilled the standard for accreditation set by the EAC hence acquired the achievement with Full Accreditation of 5 years. What's important is that each one of us that shades under the Faculty of Civil Engineering's roof plays an important role in contributing to the development and improvement of the faculty to ensure that the programme is delivered to its top condition.







Let us pray together and have faith in the dedication and persistence of all of the hard works performed in making the event successful might be finally paid off with the achievement of the faculty.

Let us stand together side by side holding our hands together to show the unity that the faculty has to obtain the pinnacle achievement that we are hoping for.





'TEAMWORK MAKES THE DREAM WORK'



Initiatives

By: Syahirah Mansor

Benchmarking Visit to



On 18th August 2016, the Faculty of Civil Engineering UiTM Cawangan Pulau Pinang conducted a benchmarking visit to aid as a Continuous Quality Improvement (CQI) for Bachelor of Civil Engineering (Infrastructure) program (EC221). The benchmarking course was held at the University Sains Malaysia (USM) Engineering Campus, Nibong Tebal, Pulau Pinang.

The main objective of the benchmarking was to make sure the courses offered in EC221 program are sufficient in terms of the breadth and depth covered within the courses when compared to establish and well-known university such as USM and Universiti Teknologi MARA. On a side note, both of the universities had obtained full 5 years for accreditation the civil engineering The benchmarking includes program. operation of the system in the university and

detail comparison of the courses offered with analysis on the similarities and differences that may encountered during the visit.

The analysis of the benchmarking can be observed as a valuable and constructive input for the next curriculum review at the end of December 2017. If there are courses with more than 50% differences in the analysis, hence it is required for possible amendment in the next curriculum review



"Benchmarking means finding out who is the best in an area, studying how they work, and adopting the best practices that are suitable to your own organization." Dew, J. & Nearing, M (2004), Continuous Quality Improvement in Higher Education



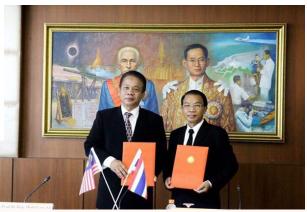
Memorandum of Understanding (MoU)





A signing ceremony of the Memorandum of Understanding (MoU) between Universiti Teknlogi MARA Cawangan Pulau Pinang (UiTMPP) and King Mongkut's Institute of Technology Ladkarbang (KMITL) has been tentatively held on the 28th August 2017 at the President KMITL Building, King Mongkut's Institute of Technology Ladkrabang, Bangkok, Thailand. Five delegates from UiTMPP attended the MoU signing ceremony including Associate Professor Ir. Dr. Ahmad Rashidy Razali, Associate Professor Ir. Dr. Yee Hooi Min, Associate Professor Dr. Haji Mohd Fozi Ali, Dr. Koay Mei Hyie and Ir. Dr. Salina Budin. The MoU was established to promote international collaboration that may include exchanging ideas, knowledge, expertise, technologies and culture through persistent communication between both parties.

King Mongkut's Institute of Technology Ladkrabang (KMITL) is an internationally wellknown for its research and innovation where the university is particularly proud in offering



excellent academic standards combined with extensive facilities. Each faculty features specialized research centres and laboratories as a leading-edge research venue in various fields. With numerous cooperative activities from the industry, KMITL also extends to high level of research and development to the local industries.

According to the QS World University Rankings 2016 carried out by Quacquarelli Symonds (QS) — the world's famous educational business, KMITL is ranked to be one of the world's first class universities. As such, KMITL's Departments of Electrical and Electronics Engineering are ranked at the 251st — 300th place, reflecting the international reputation of KMITL as pioneer in the field of science and technology.



In addition, KMITL has involved in numerous international research collaborations of more than 50 countries around the world in 2012. Recently, KMITL, Carnegie.

Mellon University and Tokyo Institute of Technology have joined hands in organizing and coordinated projects and exchanging academic knowledge.

At present, KMITL is regarded as the largest educational institute of engineering and is highly renowned for serving practical engineering graduates in science and technology for industry.

The MOU aims to promote; 1) Institutional exchanges between the faculty and staff members from each of the institution, 2) Acceptance of undergraduate and graduate students from each of the institution to experience an allocated period of study and/or research activities, 3) Exchange of information pertaining to developments in teaching, student development and research institutions, and Cooperation in any other areas as agreed by the both parties from time to time.



It is hoped that both universities are able to explore all possibilities for enhancing the educational and research opportunities for our students, staff and universities through the implementation of future activities.

Benchmarking Visit from POLITEKNIK

On 17th January 2017, Politeknik Sultan Azlan Shah (PSAS), Behrang lead by Nor Mazana Ismail (Head of Diploma Program) visited the Faculty of Civil Engineering UiTM Cawangan Pulau Pinang for benchmarking with the purpose of preparation for Engineering Technology Accreditation Council (ETAC). The benchmarking was attended by ten staff members from PSAS to review the implementation of teaching and learning processes especially in the development of curriculum, student evaluation process, as well as the process of collaboration with the industry in the Faculty of Civil Engineering UiTM Cawangan Pulau Pinang.



PSAS is the 15th polytechnic in the country and is set up to build a new polytechnic venture to develop the country's human resources to meet the needs of the Economic New Model (MBE) which emphasizes on innovation and creativity. It is hoped that through this benchmarking PISAS will passing the embarking on accreditation ETAC this year.

Memorandum of Agreement (MoA)





The Memorandum of Agreement (MoA) were signed between Faculty Of Civil Engineering (UiTMCPP) & Farid Ahmad Consultant Engineering Sdn.Bhd (FACE) on 18th August 2017, and the signing was witnessed by Dr Farid Ahmad, the Deputy Director of Farid Ahmad Consultant Engineering.

In these memorandums, FACE as a leading local engineering company will cooperate with UiTMCPP to exchange technology in engineering especially in Civil Engineering.



area of project management, geotechnical, and civil & structure work. They also are equipped with the up to date original software for word processing, drafting and engineering. The objectives of this memorandum, UiTMCPP will cooperating with channelling expertise and providing advisory services to develop technology in the field of civil engineering to the company. any fields related.



for staff engagement in projects that can benefit both parties. The company will also provide place for a students and lecturers to conduct industrial training. FACE and **UITMCPP** agreed to establish research and consultancy cooperation the field of civil

Besides, the company will strive to open space

FACE is a 100% Bumiputera consulting firm established on 4th July 2011 to meet the aspiration of a strong Muslim community in a developed Malaysia. They are a Board of Engineers Malaysia registered CIVIL engineering consulting firm with key personnel having background strength in the

engineering, especially in the field geotechnical, structural, environmental, infrastructural, technology development and any fields related.



By: Mohd Mustaqim Mohd Nordin

Selected Publications

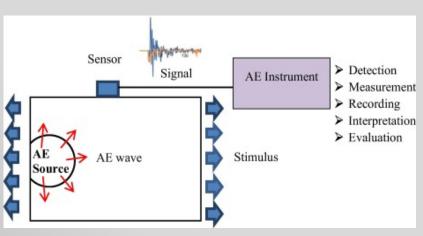
An overview on fatigue damage assessment of reinforced concrete structures with the aid of acoustic emission technique

Abstract

A comprehensive review on fatigue damage assessment of reinforced concrete (RC) structures with the aid of acoustic emission (AE) technique has been carried out. The reviews were performed on the background, principle, application, monitoring of RC structures, parameter and analysis using AE technique. Fatigue of RC structures, fatigue test configuration, effect of the fatigue amplitude of RC structures and correlation between AE technique and fatigue damage on RC structures have also been critically reviewed. From the review, two gaps were identified. Firstly, AE analyses such as AE parameter analysis, intensity analysis and average frequency versus RA value based on AE signal collected from located event is still limited. Secondly, fatigue test of RC structures based on increasing fatigue amplitude is still limited especially for RC beam specimen.

Keywords: Acoustic emission, Fatigue, Reinforced concrete, Fatigue damage

Fig. Principles of AE technique (Adaptation from Pollock)

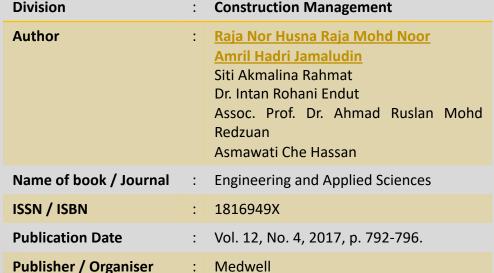




Division	:	Structure and Material
Author	:	Dr. Noorsuhada binti Md. Nor
Name of book / Journal	:	Construction and Building Materials
ISSN / ISBN	:	0950-0618
Publication Date	:	Vol. 112, 2016, p. 424-439
Publisher / Organiser	:	ELSEVIER

Quantification of construction waste generated in residential housing projects via heap survey sampling with the method of visual estimation: A case study in Klang Valley and Pulau Pinang







Abstract

Construction waste management is part of a growing movement towards a sustainable world. Throughout the years, the construction industry has made an important contribution in the lives of society in Malaysia. With the demands of major residential housing project developments, it shows that the construction sector is being expanded and developed. Moreover, it has been observed that the construction waste is one of the priority waste streams. Due to the increasing population that is actively involved in economic activities and the modernisation of the country, the types of construction wastes that is being produced is becoming more complex and has yet to be identified. Therefore, the established system to record quantitative data for the generation of construction waste has yet to be formally standardized and is still lacking across much of Asian and developing countries. To address this need, the study on the major types and composition of construction waste generated is carried out as a logical first step towards assisting the construction waste management through the categorization of construction waste in Klang Valley and Pulau Pinang. Throughout this study useful information concerning waste assessment data is necessary to achieve a better understanding of construction waste obtained. Case studies involving quantification and classification of construction waste for several on-going residential housing developments in Klang Valley, Selangor and Pulau Pinang have been presented. This study concludes with the identification of database information concerning the quantification of local construction waste which was developed for the current practices of construction waste management.

Keywords: Construction waste management, sustainable world, construction, priority waste stream, practice

Teaching Forensic Engineering in Civil Engineering Undergraduate Course

Abstract

This paper describes the development of a course in forensic engineering at Universiti Teknologi MARA for civil engineering students at the bachelor degree level. The course is designed to give a broad introduction to the application of engineering and sciences on construction failures. The study of construction failures will offer students valuable insights into associated technical, ethical, and professional issues. Topics related to structural failures, geotechnical failures, and infrastructure failures are covered in this course. At the end of the course, students should be able to identify, evaluate, and provide solutions to real-life engineering problems. Particular reference is made to the implementation of the case-based method in teaching and learning. This method has been found effective in blending real-world problems and applying theoretical knowledge. Lessons learned from the case studies will help students avoid making the same mistakes and become better prepared to join the workforce.







Transportation

Keywords: Forensic engineering; Civil engineering; Education; Casebased method; Failures.



Division



Traffic

and

Fig. (a) Corrosion of rebar; (b) removal of ceiling

Geotechnical,

Highway, **Engineering** Author : Dr. Ng Kok Shien **Juhaizad Ahmad** Ir. Mohamad Irwan Pandapotan Harapap Name of book / Journal Performance of Constructed Facilities ISSN / ISBN 1943-5509 **Publication Date** Vol. 31, Issue 5 (October 2017)

Publisher / Organiser American Society of Civil Engineers (ASCE)

Integration of HEC-RAS and geographical information system (GIS) in the hydrological study of peak flow response to deforestation on a small watershed in Malaysia

Abstract

Land use change is one of the most serious environmental and hydrological problems nowadays. It has become a global issue including Malaysia due to the greenhouse effect. Land use changes cause a significant adjustment of the hydrological balance of a watershed mainly by eliminating evapotranspiration, redistributing and modifying the amount of rainfall that reach the ground. A 20 years historical data were used to represent a geographical and hydrological data for a Kinta watershed, in the state of Perak. The geographical data were processed using geographical information system (GIS) to show the land use change in the study area. The hydrological data were analyzed through regression analysis, flow duration curve, and soil conservation service (SCS) method for analyzing runoff for land use change. The regression analyses have found significant increase of r2 value from 3.1% between year 1990 to 1996, 7.5% between year 1997 to 2000, and 13.2% between the years of 2001 to 2006. The flow duration curve has selected streamflow data event on December 28 to 29, 1996 on the Kinta River at outlet of Kinta watershed result, which has shown volume of streamflow that was 2.209 × 106 m3. Meanwhile the direct runoff was 8.979 mm from volume divided by area of watershed 246 km2. The φ index calculated was 28.144 mm/h and $\varphi\Delta t$ was 28.144 mm. Land use analysis shown result for runoff depth and S, potential max retention followed by CN for each year. The result showed increase of runoff depth and decrease of S, potential maximum retention. These findings have proved that the changes in land use in terms of the increasing deforestation activities or increasing new development will give a crucial impact to the hydrology response.

Keywords: Land Use Change, Flow Duration Curve, Soil Conservation Service (SCS) Method, Runoff Depth, Geographical Information System (GIS)



Author	:	Assoc. Prof. Dr. Mohd Fozi Ali Ahmad Fahmy Kamarudin Kamarul Ariffin Khalid Nor Faiza Abd Rahman	
Name of book / Journal	:	International Journal of Water Resources and Environmental Engineering	
ISSN / ISBN	:	2141-6613	
Publication Date	:	Vol. 5(3), 2013, p. 146-151.	
Publisher / Organiser	:	Academic Journals	

Occurrence of bed load transport in the presence of stable clast

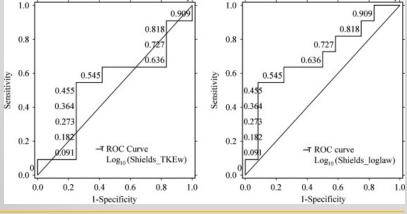
Abstract

It is well-versed that transport occurrence is vital for in stream rehabilitation, river restoration and installment of sediment sampler on river beds. Current practice emulates the use of continuous prediction using reach-averaged approach. However, prediction of transport occurrence entails the use of binary model through the execution of logistic regression analysis. Bed load and turbulence data were physically measured at mountainous region with divergent surface bedform in its presence. The parameterization and statistical approaches are treated in the similar fashion with multiple regression except for the test for model fit and model selection criterion. The parameters on near-bed turbulence characteristics at the entrainment threshold were assigned as independent variables containing 15 predictors. Almost 80 models were generated by selecting the best possible combination in accordance with the statistical precaution of alleviating multicollinearity issue. It is postulated that the model containing shields stress in the form of turbulent kinetic energy (TKE) at vertical direction and fractional time for second quadrant provides better estimation of potential location for greatest sediment-entrainment; hence a high possibility for transport occurrence.

Keywords: Logistic regression analysis, Transport occurrence, Bed load, Entrainment, Local bed

shear

Fig. ROC curve for selected predictor.





Author : Mohd Sofiyan Sulaiman

Assoc. Prof. Dr. Shanker Kumar

Sinnakaudan

Set Foong Ng

Kyle Strom

Name of book / Journal International Journal of Sediment : Research

ISSN / ISBN : 1001-6279

Publication Date : Vol. 32, Issue 2, 2017, p. 195-209.

Publisher / Organiser : ELSEVIER

RNC Technical Lecture Series

Forensic Engineering: Problem, Challenges, and Opportunities (14 June 2017)

A technical talk was held intendedly for student and staff exposure on forensic and investigation in concrete and structure introducing damages. Initial by importance of forensic engineering in civil and structural engineering practice, the content of the seminar emphasized on technique and methods for structural defect identification especially on fault and failure in reinforced concrete (RC) structures. From more than 27 years of experience, the speaker was highlighted the procedures in conducting the investigations and distinguished several structural failure evaluations systems. The crucial part in this forensic assessment was recognized which is to understand the root cause of failure or damage. Lastly, the standard element on report writing and documentation of typical structural failure forensic studv presented to the audience as an outcome in an investigation.







- ✓ Why forensic engineering?
- ✓ Identifying defects, faults and failures in R.C structures
- ✓ Conducting site investigations
- ✓ Evaluating structural failures
 - ✓ Understanding causes of structural failures
 - ✓ Report writing and documentation of structural failures

Speaker:

Mr. Parnam Singh B.E (Hons), MSc (Civil) U.K, MCSM, MACI (Malaysia Chapter) graduated from the Queen's University of Belfast (U.K) in 1989. He is a registered Civil Engineer with the Board of Engineers Malaysia and the Institution of Engineers Malaysia.

Recent Research Grants

2015 - 2017				
Division	Project Leader	Project Title	Name of Research Grant	
Geotechnical, Highway, Traffic and Transportation Engineering	Mohd Khairul Azhar Ismail	Micro and Macro Mechanical Properties Analysis of Tropical Weathered Rock Depending on the Weathering Degree.	Research Acculturation Grant Scheme (RAGS)	
	Nor Hafizah Hanis Abdullah	Determination of Soil Water Content for Unsaturated Soil Using Time Domain Reflectometer	Research Acculturation Grant Scheme (RAGS)	
	Roziah Keria	Pozzolan Effect on the Mechanical Properties of Scba And Scsa	Research Acculturation Grant Scheme (RAGS)	
	Khairul Afinawati Hashim	Soil Erodibility Assessment for Stream Bank Erosion and Stability	Research Acculturation Grant Scheme (RAGS)	
	Mohd Mustaqim Mohd Nordin	Shear Strength Empirical Model of Jointed Rock	Research Acculturation Grant Scheme (RAGS)	
	Aniza Albar	Membrane Penetration Effect in Consolidated Drained Test	Research Acculturation Grant Scheme (RAGS)	
	Nor Izzah Zainuddin	Model Development for Service Quality Indicator in Enhancing Urban Bus Operation in Malaysia	Research Acculturation Grant Scheme (RAGS)	
Structure and Material	Mohd Ikmal Fazlan Rozli@Rosli	Formulation of Soil Structure Interaction of Prestressed Concrete Sleeper (Ssi-PCS)	Fundamental Research Grant Scheme (FRGS)	
	Yee Hooi Min (Assoc.Prof.) (Ir)(Dr)	Sustainable Development of Green Technology Tensioned Fabric Structures	Research Acculturation Grant Scheme (RAGS)	
	Mohd Asha'ari Masrom	Response of Interior Wall-slab Joints Subjected to out-of-plane Loading using Ductility Theory	Research Acculturation Grant Scheme (RAGS)	

Recent Research Grants

2015 - 2017				
Division	Project Leader	Project Title	Name of Research Grant	
Structure and Material	Nur Ashikin Marzuki	Fundamental Study of Retrofitted Reinforced Concrete Beam at Elevated High Temperature	Research Acculturation Grant Scheme (RAGS)	
	Afifudin Habulat	Permeability and Strength of Fibre Reinforced Polymer Modified Pervious Concrete	Research Acculturation Grant Scheme (RAGS)	
	Aimi Munirah Jalilluddin	Acoustic Emission Mechanisms of Reinforced Concrete Beam- column Joint	Research Acculturation Grant Scheme (RAGS)	
	Noor Syafeekha Mohamad Sakdun	A Novel Acoustic Emission Mechanisms of Steel Fibre Reinforced Concrete Strengthened with Carbon Fibre Sheet	Research Acculturation Grant Scheme (RAGS)	
	Hafizah Muhamad Azlan	Strength and Interface Adhesion Mechanism of In-plane Shear Loaded Thick Adhesive Joints	Research Acculturation Grant Scheme (RAGS)	
Waste Water, Hydrology and Environmental Engineering	Muhamad Faizal Pakir Mohamed Latiff (Dr.)	Agricultural Based Activated Carbon Via Microwave Irradiated Process For Wastewater Treatment	Research Acculturation Grant Scheme (RAGS)	
	Nuraini Tutur	Phenomenology Of Incineration Temperature Of Sewage Sludge Ash(ssa)on Mortar	Research Acculturation Grant Scheme (RAGS)	
	Shanker Kumar A/L Sinnakaudan (Assoc. Prof.)(Dr.)	Engagement Of Research Collaborator For Sediment Monitoring At Selected Rivers, Cameron Highlands Pahang	Research Acculturation Grant Scheme (RAGS)	
	Nurhidayati Mat Daud	Assessment And Prediction Of Streambank Erosion Rates In The Erosion Susceptible Area	Research Acculturation Grant Scheme (RAGS)	

Recent Research Grants

2015 - 2017				
Division	Project Leader	Project Title	Name of Research Grant	
Construction Management	Nurol Huda Dahalan	Development of an Optimum Parking Demand Model	Research Acculturation Grant Scheme (RAGS)	
	Amril Hadri Jamaludin	Waste Management Best Practice Model for Malaysia Construction Waste Management	Research Acculturation Grant Scheme (RAGS)	
	Juzailah Nur Yunus	Logistics and Supply Chain Integration System Of IBS in Malaysian Construction Industry	Research Acculturation Grant Scheme (RAGS)	
	Raja Nor Husna Raja Mohd Noor	Development of Supply Chain Framework for Improving Construction Waste Management Process in Malaysia	Research Acculturation Grant Scheme (RAGS)	
	Nor Janna Tammy	Development of Modelling to Investigate the Probability of Project Successfulness	Research Acculturation Grant Scheme (RAGS)	

Community

Engagement

By: Amalina Amirah Abu Bakar

Pedestrian Walkway Project (Operasi Khidmat Masyarakat-OPKIM)

On 11th March, 2017, a pedestrian walkway project was initiated by Faculty of Civil Engineering (FCE) with the collaboration from Unit Pengurusan Fasiliti and Pejabat Pegurusan Komplek Kolej Siswa. It was officially launched on 24th March 2017 by Rektor of UiTM Pulau Pinang, Prof. Madya Dr. Mohd Fozi bin Ali.

The pedestrian walkway project was located along the outside fence which acts as a perimeter to Kolej Baiduri. The successful project was accomplished by the participation of three committed department and assisted by FCE's dedicated students.

As part of providing safety to pedestrian, it is also to embrace and strengthen the teamwork between FCE and the UiTM Pulau Pinang community. From the exciting project, participated student learnt a valuable skill in constructing the pedestrian walkway.







Experiential

Learning Opportunities for Students

By: Nurol Huda Dahalan & Norazivan Abd Aziz

Teambuilding Universiti Teknologi MARA Penang Civil Engineering Student Society (PCESS) at Penang National Park.

APRIL 2017 - A total of 36 students Bachelor Degree of Engineering (Hons.) Civil (Infrastructure) (EC221) have participated in Teambuilding program in Monkey Bay, Penang National Park. This program is also accompanied by Miss Nurol Huda Dahalan and Salahuddin Abdullah.

N **Penang National Park** Teluk Duyung Lighthouse Monkey Beach) USM (Cemac) **Teluk Tukun** Pasir Pandak **Teluk Ketapang** National Park Pantai Kerachut Entrance Teluk **Bahang Dam** Teluk Kampi Pantai Mas Copyright www.penangheritagecity.com

The program was organized to encourage teamwork spirit among PCESS club members as well as training for the new Secretariat. The participants reported to the National Park office as early as 8.00 am for the security purpose. The hiking then started at 9.00 am and students manage to arrive at Monkey Beach at 12.00 pm.

This hiking trail runs through the wooded area and the sea coast. As some of the students were hiking for the first time, the journey takes more time than expected. Somehow this experience has given them chances to get closer to nature and to train mental and physical endurance.

Immediately after arrived at Monkey Beach and do some cooling down exercise, the activities began with the 'ice breaking' session among junior students. They was also Explore Race and beach games activities. Some of the students prepared BBQ for lunch and set up for camps.



The program ended at 6:00 pm where all of the activities have been completed. As to bring more thrills, they decided to rent 4 speedboats to return to the National Park guard post. Students arrived safely at National Park office at 6.15 pm. The overall program had been a success to all participants. It is hoped that PCES can participate in more challenging outdoor activities in future.







"Keep Green Keep Clean"

APRIL 2017 - Keep green keep clean is one of the important program that was organized by the Penang Civil Engineering Student Society (PCESS) and this program was collaborated with the Chemical Engineering Student Society (CHESS). This program was held within 2 months that is from 1st April until 1st Jun 2017. This program was launched by the Timbalan Rektor Hal Ehwal Pelajar (HEP) Dr. Baderisang Mohamed at Laman Perdana, UiTM Pulau Pinang.



The "KEEP GREEN KEEP CLEAN"
program by Universiti Teknologi
MARA Pulau Pinang is a social
program where this program will
open up the opportunity to foster
a sense of concern for themselves
towards surrounding
environment.

This program is a large-scale program as it is not only focused for students but also for all staff in UiTM Pulau Pinang campus. The objective of this program is to get involvement from all parties and for them to be exposed in-depth knowledge of the importance of recycling items such as bottles, cans, plastics, and so on.



In addition, this program could encouraged creative thinking among students and be more responsible towards the environment. The spirit of teamwork and responsibility among all parties in ensuring the environment is protected from all types of pollution can also be nurtured. In this program, the organizers have provided places for collection and separation of recyclable items such as plastics, aluminium, cans and papers where these three items are the common types of waste.

The provided place for recycling is near the academic block and students hostel. Students needed to facilitate all parties to place recycling items to the nearby place. Hence, for this program we hope, all parties will gain valuable experiences, positive vibes and lessons to every individual that was involved. Hopefully with the implementation of this program will further enhance the club's and association's efforts in organizing the program activities.

With this, we hopes that this program will become a stepping stone that opens the opportunity for all UiTM residents to adopt the proper waste disposal culture in accordance with the 3R principles of "Reuse", "Reduce" and "Recycle".

Site Visit By EC221 Students

MAY 2017 – With the purpose of completing EIA report for Law in Construction course, EC221 students went to construction site located at Beverly Hills, Tanjung Bungah. They had been exposed to real site construction experience and performed EIA report from the observation.





EC221 students also attended a site visit to Sungai Derhaka and learned to measure discharge using velocity area method. The site visit was a requirement of Hydrology Engineering course. Students were given an opportunity in handling equipment to measure the data.

Career Fair

APRIL 2017 – Bachelor Degree of Engineering (Hons.) Civil (Infrastructure) (EC221) students went to Career Fair organized by Petronas University of Technology (UTP) Tronoh, Perak. Students had their experience of having career talk, company exhibition and interview session. Attending a career fair helped students to present themselves positively, networked and improved the confidence level. Since the Career Fair was attended by final year students, they also took an opportunity and dropped cover letter and resume to the related companies.

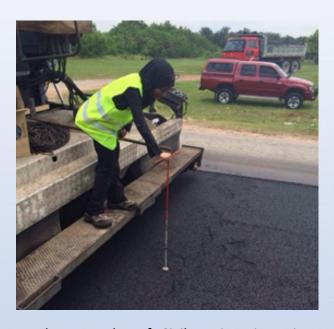


Diploma in Civil Engineering (EC110) Internship Training

APRIL 2017 - Diploma in Civil Engineering (EC110) students started their 16 weeks of internship training with industrial as one of the requirement to complete Diploma in Civil Engineering. Students had submitted the applications internship to government agencies and to private sector that were related to civil engineering. Experiential learning offers an excellent strategy for achieving the objective in the university education. In experiential learning, students will be exposed to the real working environment then develop their critical thinking skills and gain self-confidence.







To date, Faculty of Civil Engineering UiTM Pulau Pinang offers two programs which are Diploma in Civil Engineering (EC110) and Bachelor Degree of Engineering (Hons.) Civil (Infrastructure) (EC221) with internship training to improve student skills as an employee in real-world experience. Since then, FCE always looking forward to deliver courses or activities which will place students to think, interact and learn from a real-world situation.





FEBRUARY 2017 – Penang Civil Engineering Student's Society (PCES) and Academic Advisory Unit (AAU) were team up in organizing special event for faculty called Civil Outdoor Day (COD). PCES committees took the opportunity to contribute and share their skills of event planning and organized the event successfully.





There were outdoor activities, meeting and heart to heart session with academic advisors to solve any issues raised by students. This is an initiative of AAU to strengthen the connection between the academic advisors with their advisee.

COD had been participated by approximately 400 of EC110 students and 36 lecturers. The event was also attended by our Campus Rector, Prof. Madya Dr. Mohd Fozi bin Ali during closing event.



Congratulations to PCES!



Achievement Staff

By: Nurshafieza Azizan

Promotion

Promoted to Grade 54

Division of Structure and Material



Associate Professor Ir. Dr Yee Hooi Min

Promoted to Grade 52

Division of Structure and Material



Mohd Asha'ari Masrom



Ir. Mohamad Zain Hashim



Dr. Muhd Norhasri Muhd Sidek



Nurjuhanah Juhari



Shafienaz Ismail



Siti Isma Hani Ismail

Promotion

Promoted to Grade 52

Division of Waste Water, Hydrology and Environmental Engineering



Zuraisah Dollah

Dr. Muhamad Faizal Pakir Mohamed Latiff





Nur Shafieza Azizan

Kamsiah Abdul Wahab



Nurazwa Muhamad Bashar

Promoted to Grade 52

Division of Construction Management



Ir. Mohd Azrizal Fauzi



Nurulzatushima Abdul Karim

Promotion

Promoted to Grade 52

Division of Geotechnical, Highway, Traffic and Transportation Engineering



Juhaizad Ahmad



Ahmad Syauqi Md Hasan



Dr. Masyitah Md Nujid



Mohd Rafe Abdul Majid



Rozaini Ramli



Azura Ahmad



Faizah Kamarudin

Innovation

DIAMOND AWARD & GOLD MEDAL

Project: Low Cost and Low Permeability of Non-Biodegradable Plastic Waste (N-BPW) as Alternative Landfill Liner Materials.

Penang Invention, Innovation and Research Design 2017 (PIID 2017)

- 1. Nur Azwa Muhamad Bashar
- 2. Dr. Salina Alias
- Mohd Afif Azizan
- 4. Prof. Ir. Dr. Suhaimi Abdul Talib
- 5. Assoc. Prof. Ir. Dr. Yee Hooi Min



Abstract

Non-biodegradable plastic wastes (N-BPW) have become a major problem in solid waste management due to its inability to degrade when they are disposed at landfill site. In line with the Malaysian Government Policy on the application of green technology concept through the 5R's practice, this N-BPW has a potential to be commercialized as a part of a landfill layer and alternative to conventional geomembrane. In this study, two types of N-BPW namely plastic bag waste (NBPW-Liner) and waste from food plastic wrap (NBPW-Liner2) will be proposed as a liner materials for landfill. Firstly, through a hot pressing technique, both plastic wastes were fabricated as a sheet of liner. Then the prepared liner were tested for its chemical and physical properties through Ultimate Tensile Strength Test (UTS) and Fourier Transforms Infrared Spectroscopy (FTIR). The tested samples were compared with conventional geomembrane. Obtained results from FTIR showed that fabricated layers had 95% similar characteristics to geomembrane. In addition, the fabricated samples are able to sustain high maximum load as compared to conventional geomembrane based on UTS. The liners offer an option to the landfill operators in choosing a good reusable material, improve the landfill workability and solved N-BPW landfilling problems. The NBPW-Liner1 and NBPW-Liner2 prototype has great potential and capability to promote as an alternative landfill liner.

Keywords

Geomembrane, Green technology; Landfill liner; Non-biodegradable plastic waste; Shear strength

4

Innovation

DIAMOND AWARD

Project: Utilization of Recycled Concrete Aggregate and Waste Paper Sludge Ash in Production of Non-Structural Concrete

International Invention and Innovative Competition 2016 (InIIC Series 2/2016)

- 1. Ir. Mohd Azrizal Fauzi
- 2. Ahmad Najmi Fakhudeen Mat Azmi
- 3. Dr. Muhamad Faizal Pakir Mohamed Latif
- 4. Assoc. Prof. Dr. Ahmad Ruslan Mohd Ridzuan
- 5. Assoc. Prof. Dr. Mohd Fadzil Arshad
- 6. Ir. Sulaiman Hasim



Abstract

This product develops the controlled low strength material strength (CLSM) using waste paper in sludge ash (WPSA) in a mixture of Portland cement without adding cement. Series of mixtures containing 5%, 10%, 15%, 20%, 30%, 40% and 50% of waste paper sludge ash (WPSA), instead of Portland cement. CLSM cube of 100mmx100mmx100mm compressive strength tests at the age of 7, 14 and 28days. Found that this development contributes to the strength of the WPSA pozzolanic activities whether it depends on the percentage of added waste paper sludge ash. In this study, the RCA will be the measure of whether it is release alkaline when soaked in water for 28days. The compressive strength of controlled low-strength materials is affected by both the ratio of fine recycle aggregate and coarse recycle aggregate and the characteristics of the CLSM mixtures that are developed during the maturing of CLSM. Compared the cube test result for CLSM with ratio 1:2 and 1:1 of RCA and 20mm and 10mm coarse recycle aggregates; WPSA contents as percentages mass of RCA will found to produce cohesive mixtures with constant of strength.

Keywords

Controlled Low Strength Material Strength (CLSM), Waste Paper in Sludge Ash (WPSA), Non-structural Concrete.

GOLD AND SPECIAL NOVELTY AWARD (MyIPO)

Project: Seismic Resistance (SR) Joint For Tunnel-Form Structure

Penang Invention, Innovation And Research Design 2017(PIID 2017)

- 1. Mohd Asha'ari Masrom,
- 2. Mohd Azuan Tukiar
- Amer Yusuff
- 4. Assoc. Prof. Dr. Norhayati Abdul Hamid
- 5. Mohd Elfie Mohamad.



Abstract

In Malaysia, tunnel-form structures has been utilized in building construction since 1970. This method of construction has been applied extensively in the construction of high-rise residential house such as condominium and apartment. Most of the tunnel-form buildings have been designed according to British Standard (BS) whereby there is no provision for seismic loading. The high-rise tunnel-form building is vulnerable to seismic loading and the joint between the slab and wall panels in tunnel-form building constitute an essential link in the out-ofplane lateral load-resisting mechanism. As known, Malaysia is no longer safe from earthquake disaster consequent to the damage of building. In response to the current seismic demand in Malaysia, seismic Resistant (SR) joint for tunnelform structures has invented. The joint is able to survive under earthquake loading according to laboratory testing. The analysis results indicate that the joint was governed by ductile failure modes with Ductility Class Medium (DCM) which satisfy the seismic code requirement (Eurocode, EC 8). Further, this joint shows a higher dissipation energy to sustain longer in inelastic zone as compared to the conventional joint system.



GOLD MEDAL

Project: Crack Zones Identification Using Intensity of AE Signal.

Penang Invention, Innovation And Research Design 2017(PIID 2017)

- 1. Dr. Noorsuhada Md Nor
- 2. Soffian Noor Bin Mat Saliah

GOLD MEDAL

Project: POSIMS: Integrated Management System
For PO's Attainment

Penang Invention, Innovation And Research
Design 2017(PIID 2017)

- 1. Md Rasul Mohamad Nor
 - 2. Fairus Azwan Azizan
 - 3. Shafienaz Ismail
- 4. Abdul Manaff Mohd Ismail





GOLD MEDAL

Project: Development Of A Framework For Improving Construction Waste Management Process: A Case Study in Pulau Pinang.

Penang Invention, Innovation And Research Design 2017(PIID 2017)

- 1. Siti Akmalina Rahmat
- 2. Raja Nor Husna Raja Mohd Noor
- 3. Dr. Intan Rohani Endut
- 4. Amril Hadri Jamaludin
- Dr. Ahmad Ruslan Mohd Ridzuan



SILVER MEDAL

Project: The potential use of Reclaimed Asphalt Pavement (RAP) and Shell Waste (SW) as alternative materials for road construction.

Penang Invention, Innovation And Research Design 2017(PIID 2017)

- 1. Juliana Idrus
- 2. Khairul Afinawati Hashim
- 3. Dr. Masyitah Md Nujid
- 4. Nur Shafieza Azizan
- 5. Nurjuhanah Juhari

SILVER MEDAL

Project: Potential of Agricultural Waste From Rice Husk Ash (RHA) As Low Cost Adsorbent in Industrial Wastewater Treatment

Penang Invention, Innovation And Research Design 2017(PIID 2017)

- 1. Siti Hafizan Hassan
 - 2. Nor Azliza Akbar
 - 3. Zuraisah Dollah
- 4. Che Haslina Abdullah.





SILVER MEDAL

Project: Potato Peels as Natural Adsorbent in Removing Zinc and Chromium in Aqueous Solution

Penang Invention, Innovation And Research Design 2017(PIID 2017)

- 1. Satira Hambali
- 2. Md Zahiruddin Alidin
- 3. Caroline Marajan
- 4. Caroline Peter Diman
- Kamsiah Abdul Wahab.



SILVER MEDAL

Project: Development of Light-Q System To Monitor Illumination Level in UiTM Pulau Pinang.

Penang Invention, Innovation And Research Design 2017(PIID 2017)

- 1. Adhilla Ainun Musir
- 2. Nor Hafizah Hanis Abdullah
- 3. Nurulzatushima Abdul Karim
- 4. Aniza Albar
- 5. Zuraisah Dollah

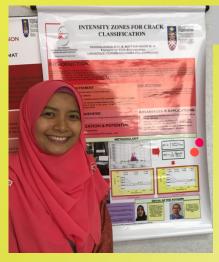
SILVER MEDAL

Project: Potential Application of Crushed Glass (Cg) as Filtration Media for Advanced Wastewater Treatment.

Penang Invention, Innovation And Research Design 2017(PIID 2017)

- 1. Kamsiah Abdul Wahab
- 2. Nur Azwa Muhamad Bashar
 - 3. Dr. Salina Alias
- 4. Assoc. Prof. Ir. Dr. Yee Hooi Min
 - 5. Nor Sakinah Yusni





SILVER MEDAL

Project: Damage classification of RC structure using AE intensity.

SIRIM Invention, Innovation and Technology Expo (SI2TE2017)

- 1. Dr. Noorsuhada Md Nor
- 2. Soffian Noor Bin Mat Saliah.



BRONZE MEDAL

Project: Crack modes classification of SFRC strengthened with CFRP using average frequency versus RA value.

SIRIM Invention, Innovation and Technology Expo (SI2TE2017)

- 1. Dr. Noorsuhada Md Nor
- 2. Abdul Hakeem Zulkifli
- 3. Prof. Dr. Azmi Ibrahim
- 4. Soffian Noor Mat Saliah
- 5. Noor Syafeekha Mohamad Sakdun

BRONZE MEDAL

Project: Ratcheting Puller (RP)

Penang Invention, Innovation and Research Design 2017(PIID 2017)

- 1. Khairul Afinawati Hashim
 - 2. Dr. Masyitah Md Nujid
 - 3. Juliana Idrus
 - 4. Amril Hadri Jamaludin
 - 5. Amir Khomeiny Ruslan





BRONZE MEDAL

Project: Average Frequency - RA Value For Damage Classification of SFRC Strengthened With CFRP.

Penang Invention, Innovation and Research Design 2017(PIID 2017)

- 1. Dr. Noorsuhada Md Nor
- Abdul Hakeem Zulkifli
- 3. Prof. Dr. Azmi Ibrahim
- 4. Soffian Noor Mat Saliah
- 5. Noor Syafeekha Mohamad Sakdun



BRONZE MEDAL

Project: Acoustic Emission (AE) Signal Strength of Concrete Containing Rice Hush Ash (RHA) as Cement Replacement.

SIRIM Invention, Innovation and Technology Expo (SI2TE2017)

- 1. Dr. Noorsuhada Md Nor
- 2. Siti Zubaidah Bibit
- 3. Soffian Noor Mat Saliah
- 4. Adillatulfaizah Muhamad Shanawi
- 5. Mohd Azam Sharafi Ahmad Saudi
- 6. Muhammad Zahier Mohd Rafie

BRONZE MEDAL

Project: High Strength, Cost Effective and Eco Friendly Pavement (HICOF-PAVE) of SMA Using Sugarcane Bagasse as Fiber.

Penang Invention, Innovation and Research Design 2017(PIID 2017)

- 1. Syahirah Mansor
- 2. PM Ir. Dr. Ahmad Kamil Arshad
 - 3. Rozaini Ramli
 - 4. Mazlina Razali
 - 5. Mohd Norhilmi Mohd Dahari



Achievement Student & Alumni

By: Nurol Huda Dahalan

Dean's List Award

The Faculty of Civil Engineering UiTM Pulau Pinang hosted its Annual Recognition of Dean's List Awards Ceremony for Diploma students on 16th February, 2017. The ceremony was coordinated by Madam Nur Shafieza Azizan and Penang Civil Engineering Society (PCES). This ceremony recognises continuing students with outstanding academic achievement in their previous year that attained a GPA of 3.50 and above.

The awards were presented by the Deputy Rector of Academic Affair, Prof. Madya. Ir. Dr. Ahmad Rashidi Razali, the Head Centre of Studies, Dr. Kay Dora Abd Ghani and the Programme Coordinator, Dr Noorsuhada Md Nor. Recognition of student effort and excellence is something the faculty continually does. These top performing students can influence others to achieve their potential as peer role models, and the recognition represents a mark of excellence to be included in recipient's curriculum vitae.







Dean's List Award

List of Dean's List awardees for Diploma in Civil Engineering (EC110):

No.	Name	ID	Part	GPA
1	'AKIF BIN ARIF	2015809468	2	3.72
2	AHMAD AFIQ HAKIMI BIN ROSLAN	2015814208	2	3.89
3	AHMAD UMAR ABUBAKR BIN ZULKORNAIN	2015873844	2	3.95
4	AIMI SHAZREEN BINTI SHUKRI AINATUL-FATIMA BINTI MD MUROZI	2015876394 2015840808	2	3.54 3.57
5				
6	ALIF IZLAN BIN YUSOF	2015817492	2	3.67
7	MIRA HAFIZA BINTI SHA'ARI	2015838198	2	3.56
8	ANATI WARDINA BINTI JOHARI	2015816952	2	3.95
9	ANIS FARZANA BINTI FAZLY	2015861802	2	3.78
10	ANIS FILZAH BINTI AZIZ	2015843618	2	3.50
11	ANISSA BINTI NORDIN	2015835336	2	3.87
12	AYU SYUHADA BINTI ABDUL SATAR	2015820254	2	3.72
13	AZDLAN BIN AZIZAN	2015845702	2	3.67
14	FATIN AMIRAH BINTI MOHAMAD ARIFF	2015821386	2	3.67
15	HANIS NABILA BINTI MADZI	2015814782	2	3.54
16	HURIL AIN BINTI SHUKOR	2015881986	2	3.63
17	IZATUL AIDA BINTI SUHAIMI	2015823394	2	3.50
18	JULIANA BINTI JOHARIS	2015853422	2	3.74
19	KHALIQAH AQILAH BINTI JAMALUDDIN	2015848904	2	3.54
20	MARSILA AZYRA BINTI MOHD YAJID	2015862024	2	3.54
21	MAS AMIRUL HAFIZ BIN MAS JUNIDEN ISMAIL	2015895482	2	3.85
22	MOHAMAD IKMAL SHAFIK BIN JAMALUDIN	2015878808	2	3.61
23	MOHAMAD SHAHWAL BIN MOHAMAD SARJI	2015868302	2	3.50
24	MOHD SHAKIR BIN ABDUL SAMAT	2015873614	2	3.70
25	MUHAMAD ALIF BIN HAROMAINI	2015880188	2	3.57
26	MUHAMAD FIRDAUS BIN ROSLE	2015814934	2	3.50
27	MUHAMAD HAFFIZUL FIKRI BIN ROMZI	2015821554	2	3.80
28	MUHAMMAD AFIQ ZAFRAN BIN ZULKIFLI	2015885916	2	3.76
29	MUHAMMAD ASHRAF BIN MOHD YUNUS	2015820118	2	3.69
30	MUHAMMAD DANIAL HAFIZ BIN MOHD RADZI	2015820954	2	3.96
31	MUHAMMAD FARRIS IMADI BIN FUZE	2015844926	2	3.89
32	MUHAMMAD FITRY BIN IDRIS	2015850452	2	3.50
33	MUHAMMAD KHAIRUL IMAN BIN BAKHORI	2015810714	2	3.78
34	MUHAMMAD LUQMAN BIN AZUDDIN FITRI	2015857474	2	4.00
35	MUHAMMAD RAZIQ SYAHMI BIN RAMLI	2015847586	2	3.89
36	MUHAMMAD RIDZUAN TEA BIN MUHAMMAD ALI TEA	2015868468	2	3.56
37	MUHAMMAD SAIFUL NAJMI BIN SALAMUN	2015815372	2	3.65
38	MUHAMMAD YUSMAN BIN MOHAMAD SAAD	2015860832	2	3.56
39	MUHAMMED FAIZ FATHI BIN AHMAD	2015835862	2	3.76
40	NATASHA ALEIA BINTI AHMAD ZAKI	2015891634	2	3.95
41	NOOR ABIIDAH BINTI ZAINAN	2015883424	2	3.54
42	NOOR INTAN SYARIZZLIN BINTI JAMALUDDIN	2015881886	2	3.54
43	NOR AYUNI BINTI ALIAS	2015883964	2	3.50
+5	TOTAL TOTAL DISTINCT	L313003304	_	3.50

Dean's List Award

No.	Name	ID	Part	GPA
44	NOR MARSHA IQSTIFFA BINTI MAZLAN	2015872514	2	3.74
45	NOR WAHYU HIDAYAH BINTI ABD HALIM	2015898202	2	3.54
46	NORAINI BINTI FADZIL	2015832812	2	3.74
47	NOREHAN BINTI OTHMAN	2015871326	2	3.52
48	NORFARINA BINTI NOR AZMI	2015830098	2	4.00
49	NORSUHADA BINTI ROSLI	2015817376	2	3.76
50	NUR ADLENA ELIYA BINTI MAZLI	2015890326	2	4.00
51	NUR AIN SYAHIRA BINTI MAZLAN	2015835938	2	3.50
52	NUR AINA FARISYA BINTI AZMAN	2015838016	2	3.91
53	NUR AININ SOFIYA BINTI HUSIN	2015835954	2	3.72
54	NUR AISYAH BINTI MOHD ASRI	2015891736	2	3.57
55	NUR ANIS FAKHEERA BINTI MOHAMMED YASRI	2015841096	2	3.76
56	NUR AQILLA BINTI HAMZAH	2015891276	2	3.85
57	NUR ASYIQIN BINTI MOHD AZMI	2015854922	2	3.54
58	NUR FARAHIYAH BINTI ABDUL HALIM	2015811624	2	3.72
59	NUR FARHANAH AQILAH BINTI SALIM	2015838892	2	3.67
60	NUR FATIN MAISARAH BINTI DZULKIFLI	2015817028	2	4.00
61	NUR FATIN NASUHA BINTI MHD KHATIF	2015865852	2	3.54
62	NUR HAZIQAH BINTI MOHD IBRAHIM	2015841336	2	3.54
63	NUR HIDAYAH BINTI NASARUDDIN	2015841642	2	3.67
64	NUR IFFA FARISHA BINTI JAMSHAH	2015884174	2	3.78
65	NUR NABILAH BINTI DAUD	2015894664	2	3.56
66	NUR SABRINA BINTI MOHAMAD SHUHAIMI	2015891696	2	3.85
67	NURALEEYA BINTI M.ILOBSHEBRU	2015828548	2	3.80
68	NURLAILA BINTI MOHAMAD KASIM	2015858356	2	3.71
69	NURUL IZZATI BINTI BEHERAN	2015822864	2	3.70
70	NURUL NAJIHA BINTI IMAM ROBIT	2015846632	2	3.56
71	NURUL NAJIHAH BINTI DZAINOL	2015883936	2	3.56
72	NURUL SYIFA BINTI MOHD ZAHID	2015876774	2	3.83
73	NURUL'AIN HAZIRAH BINTI OTHMAN	2015816354	2	3.76
	NURZATUL ATIKAH BINTI ARBIAN	2015825414	2	3.72
	PUTERI NURUL AINA BINTI ASMADY	2015849112	2	3.61
	PUTRI NURAFRINA BATRISYIA BINTI MOHAMAD	2015859726	2	3.74
	RUSMI KALSOM BINTI RUSLAN	2015882884	2	3.74
	SALMAH BINTI ABAS	2015826344	2	3.72
	SITI ADRIANA BINTI ZAIMI	2015863602	2	3.84
80		2015838028	2	3.72
~-	SITI NURHASLINA FITRIYAH BINTI HASSAN	2015866058	2	3.63
	SITI SYAFINAZ ZARITH BINTI ZAHIMI	2015838228	2	3.50
	SITI SYAFIQAH BINTI SHAHRUDDIN	2015811536	2	3.80
	YASMIN SURAYA BINTI ROSMAN	2015812154	2	3.59
85	YUSMA EZURIN BINTI YUSLAN	2015883848	2	3.85

Dean's List Award



Annual Recognition of Dean's List Awards Ceremony for Degree students was held on 16th February, 2017. The awards were presented by the Head Centre of Studies, Dr. Kay Dora Abd Ghani and the Programme Coordinator, Dr Suhailah Mohd Noor.

Congratulations to all students who have earned a place on the Dean's List for their academic achievements in their previous year that attained a GPA of 3.50 and above. The faculty on the whole is proud of its students.

List of Dean's List awardees for Bachelor in Civil Engineering (Infrastructure):

No.	Name	ID	GPA
1	SARAH NADHRAH BINTI YAI'D	2016209874	3.55
2	QHAIRULSYAKIRIN BINTI SALIM	2015134963	3.52
3	SITI NABILA BINTI MOHD IBRAHIM	2015837108	3.54
4	FARWIZAH ADAWIYAH BINTI JAPLIN	2015833996	3.56
5	IVIYANA ANAK JOSEPH	2015887684	3.65
6	MOHD AMIRUL HAFIZ BIN ROSLAN	2015837032	3.59
7	MUHAMMAD FARIS QUSYAIRI BIN HAMAT	2015238366	3.60
8	MUHAMMAD SHAMIN BIN ZULHILMI	2015887602	3.53
9	NOR AFFIQA SAHIRA BINTI ZAHARI	2015228804	3.65
10	NUR AZRIN BINTI AZLAN	2015837094	3.70
11	NUR HAZIRAH BINTI ABD AZIZ	2015836802	3.65
12	NUR MAHIRAH BINTI ABD LATIF	2015831628	3.57
13	NURUL AMIRAH BINTI KHUSHAIRI	2015839334	3.78
14	ROZANA BINTI SAMSUDIN	2015278726	3.59
15	UMMI AMIRAH BINTI DEWAN@ABDUL RAHMAN	2015887286	3.65
16	UMMI KHADIJAH BINTI SHAMSUDDIN	2015877988	3.72
17	JIJIL SAIKAM	2014363993	3.54
18	ADILLATULFAIZAH BINTI MUHAMAD SHANAWI	2014698232	3.55
19	MUHAMMAD FATHI BIN ILIAS@ZAHARI	2014242398	3.51
20	NUR AIN IZZATI BINTI NASARUDDIN	2014213354	3.75
21	PUTERI ERA NADIA BINTI MAD DAUD	201426462	3.55

Alumni Stories

Meet Some of Our Alumni

Our Graduates Are Successful

This alumni story comes from Amierul Mukmien. He earned his Degree in Civil Engineering (Infrastructure) from the UiTM Pulau Pinang in 2013. Currently, he is a QA/QC Engineer (IQC) in the MMC-GAMUDA KVMRT SDN BHD.



Started the career as Technical Assistance at QAQC department which is focus on the documentation work never stop me from hunting the knowledge in engineering. After 3 months worked as Technical Assistance. I was promoted to the next level in career development which is Junior Engineer at the same department. Exposed more on the Engineering work, such very exciting experience and environment to explore more in engineering knowledge especially in tunnelling work which is a new era of transportation in Malaysia. The eager in learning drive me to go further and I was lucky when after 3 months service as Junior Engineer, I have been promoted to Independent Quality Control Engineer (IQC) by top management of QAQC department. Realize the upcoming new era for Malaysia in tunnelling work, the opportunity to enhance myself is use as well as possible. The IQC job scope focus more on the technical issue and organizing the works to be carrying out, upcoming works and coordinating of the works. The IQC position is a new position for the MRT-Line 2 which are responsible as Inspector of Quality and can be said one of the key player in the MRT project.





Alumni Stories

Noor Azwani Abdul Rahman received her Degree in Civil Engineering (Infrastructure) from the UiTM Pulau Pinang in 2016. She is currently a Site Engineer in the CLYC CONSTRUCTION.





My career started as Site Engineer at TEH KEAN SAI SDN.BHD. I was responsible to ensure all work carried out are in accordance to the drawing, specifications, construction plan, procedure and work instruction. Beside, I also need to supervise and coordinate site work to ensure progress of works meets project schedules. After 7 months at TEH KEAN SAI SDN.BHD, I joined CLYC CONSTRUCTION as Site Engineer for the Construction Project which focusing on Earthwork and Infrastructure work. Occasionally, I help with managing ongoing construction projects, working on the job site to oversee progress and resolve construction issues. I really enjoy my work. That's one of the things I really enjoy about my job, I get to see a lot of the engineering work in one project, and I get to be a part of all of it.



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