



CEN IRON

INTERNATIONAL CONFERENCE ON CIVIL & ENVIRONMENTAL ENGINEERING

PENANG 28 - 29 NOVEMBER 2017

Towards Green & Sustainable Environment

Organized by:

School of Environmental Engineering
Universiti Malaysia Perlis



UNIVERSITI
MALAYSIA
PERLIS



**Message from The Vice Chancellor of
Universiti Malaysia Perlis (UniMAP)**

International Conference on Civil and Environmental Engineering (CENVIRON 2017)

Date : 28 - 29 November 2017

Venue: Flamingo Hotel by the Beach, Penang



It is my great pleasure to acknowledge the International Conference on Civil and Environmental Engineering 2017 (CENVIRON 2017), organized by the School of Environmental Engineering, UniMAP. I foresee that this event will serve as an ideal platform which able to bring together researchers from the academia and practitioners from the industry to share and discuss the increasingly important issues on civil and environmental engineering.

I hope that all participants of the conference will gain rewarding experience from all the studies and findings presented during the event. My deepest gratitude to all who are willing to share their experience and research findings for the benefit of not only Malaysia, but also other countries worldwide, represented by their delegates. Should there be a sequel to this first event, I would like to welcome all delegates again for more knowledge sharing in this event.

The conference topics will revolve around the theme "Towards Green and Sustainable Development", the university encourages the School of Environmental Engineering to continue to move forward and take more challenges in coordinating more activities that will capture the true meaning of green growth and the importance of sustainable development to meet human needs holistically without undermining the integrity and stability of the natural systems. Let us all work together to find a better solution to reduce the unwanted effects of industrial activity on our environment, while simultaneously creating good synergy between the academia and the industry.

I would like to congratulate all the working committee members of the International Conference on Civil and Environmental Engineering 2017 for their tremendous teamwork in making the event successful. CENVIRON 2017 would be a good arena to exchange experiences as well as to assimilate the latest information and technology in this field. I hope this conference will continue to be held annually to ensure continuity in the endeavour for excellence for the civil and environmental engineering community, the participants and the organizations involve.

Last but not least, on behalf of the organizing committee, I would like to extend my sincerest thanks and appreciation to our local and international participants for making this event a success. I hope all of you will have a fruitful discussions and deliberation during the conference.

Dato' Professor Dr. Zul Azhar Zahid Jamal
Vice Chancellor,
Universiti Malaysia Perlis

**Message from The Dean of
School of Environmental Engineering, UniMAP**

International Conference on Civil and Environmental Engineering (CENVIRON 2017)

Date : 28 - 29 November 2017

Venue: Flamingo Hotel by the Beach, Penang



On behalf of the School of Environmental Engineering, Universiti Malaysia Perlis, we wish to extend a warm welcome to all the speakers, delegates, sponsors and participants to our first International Conference on Civil and Environmental Engineering 2017 (CENVIRON 2017).

The main objective of this conference is to provide an international technical forum for engineers, academicians, scientists and researchers to present current progress and completed research in the field of civil and environmental engineering. The primary focus of the conference is to create an effective medium for institution and industries to share knowledge, exchange information, innovation and problem solving techniques.

I believe everyone who is part of this conference shares the goal of researching and understanding of the contemporary and cutting edge issues, to be at the forefront of knowledge. Hence, it is my desire to see this two-day conference establish new networks amongst the participants, and break new ground in introducing new research agendas for further exploration.

I would like to take this opportunity to thank all committee members of CENVIRON 2017 for their commitments and dedications. I would like to extend my appreciation to technical reviewers for their contribution in scientific peer review process. Without their effort, such a good standard could not be attained. Many thanks also to the sponsors and all those involved in making this conference a success. Last but not least, I wish you enjoy your participation in this conference.

Assoc. Prof. Dr Nasrul Hamidin
Dean,
School of Environmental Engineering,
Universiti Malaysia Perlis

Message from The Chairman of CENVIRON 2017

International Conference on Civil and Environmental Engineering (CENVIRON 2017)

Date : 28 - 29 November 2017

Venue: Flamingo Hotel by the Beach, Penang



On behalf of the organizing committee, I would like to extend a warm 'Selamat Datang' (welcome) and greeting to all participants attending CENVIRON 2017 at Flamingo Hotel by the Beach, Penang. The focus of the conference is to gather researchers, academia and industry together to share and discuss current researches in the field of civil and environmental engineering towards green and sustainable environment.

CENVIRON 2017 will feature Keynote addresses by renowned speakers specially invited to share their professional experiences in related issues. The aim of this conference is to provide an invaluable networking opportunity and platform for knowledge sharing and interchange among researchers, academicians and industrial expertise. This includes current research and development especially in the advancement of civil and environmental engineering. I believed that this conference will lead to a broad discussion, generate new ideas scientifically and at the same time will create a strong collaboration among the participants.

Putting together was a team effort. We are grateful to all the committee members who worked very hard to make this event a successful one. We also would like to thank our sponsors and exhibitors; Active Acoustic, Mega Jati Consult Sdn. Bhd, AR Alatan, Bann Edar, Etika Kekal Enterprise and Water Research Group (WAREG) for their supports toward this conference. We would also like to thank all the authors who submitted their papers to the conference, and all the participants who helped in accomplishing the goals of the conference. We will do our best to make your stay at this conference a pleasant and fruitful one, both socially and scientifically. We hope that you will find this program interesting and thought-provoking and that this conference will provide you with a valuable opportunity to share ideas with others.

Wassalam.

Ir. Dr. Mohd Asri Ab Rahim
Chairman,
CENVIRON 2017

Conference Schedule

International Conference on Civil and Environmental Engineering (CENVIRON 2017)

Date : 28 - 29 November 2017

Venue: Flamingo Hotel by the Beach, Penang

Day 1	28th November 2017 (Tuesday)		
0800 - 0840	Registration		
0845 - 0900	Recitation of Do'a Welcoming Speech by Ir. Dr. Mohd Asri Ab Rahim		
0900 - 0945	Keynote 1 by Dato' Prof. Emeritus Ir. Dr. Zainal Mohamed Topic : Managing Green and Sustainable Environment-Challenges and Opportunitess		
0945 - 1030	Keynote 2 by Prof. Dr. Nik Meriam Nik Sulaiman Topic : Action-oriented SDGs towards a Sustainable Future - What Can Universities Do?		
1030 - 1045	Coffee / Tea Break		
	PARALLEL SESSION 1		
	Session 1 - Flamingo Ballroom	Session 2 - Gold Ballroom	Session 3 - Pink Ballroom
1245 - 1430	Lunch (Flamingo Cafe)		
	PARALLEL SESSION 2		
	Session 4 - Flamingo Ballroom	Session 5 - Gold Ballroom	Session 6 - Pink Ballroom
1630 - 1700	Coffee / Tea Break		
	BREAK		
1945 - 2230	Welcoming Dinner (Flamingo Ballroom)		

Day 2	29th November 2017 (Wednesday)		
0900 - 0945	Keynote 3 by Ir. Dr. Zuhairi Abd. Hamid Topic : Sustainable & Resilient Construction		
0945 - 1030	Keynote 4 by Prof. Dr. Suzana Yusup Topic : Catalysing a Sustainable and Green Chemical Process; What, Why and How?		
1030 - 1045	Coffee / Tea Break		
	PARALLEL SESSION 3		
	Session 7 - Flamingo Ballroom	Session 8 - Gold Ballroom	Session 9 - Pink Ballroom
1245 - 1430	Lunch (Flamingo Cafe)		
	PARALLEL SESSION 4		
	Session 10 - Flamingo Ballroom	Session 11 - Gold Ballroom	Session 12 - Pink Ballroom
1615 - 1645	Closing Ceremony and Award Presentation (Flamingo Ballroom)		
1645 - 1730	Coffee / Tea Break		

Presentiation Schedule

International Conference on Civil and Environmental Engineering (CENVIRON 2017)

Date : 28 - 29 November 2017

Venue: Flamingo Hotel by the Beach, Penang

Day 1 (28th November 2017, Tuesday)

Flamingo Ballroom

Session 1 : 10.45 am - 12.45 pm

Theme : Construction Material
Chairperson : Ir. Mustaqim Abdul Rahim
Assistant : Ms. Siti Nasuha Sabri

<u>Time</u>	<u>Presenter</u>
10.45 am	Dayang Hazimamah, Afizah Ayob, Lau Sie Yee and Wong Chee Chung Microstructural Aspects in Steel Fiber Reinforced Acrylic Emulsion Polymer Modified Concrete (SFRPMC) (<i>Paper ID - 71</i>)
11.05 am	Shettima Umara Ali, Yusof Ahmad, Mohd Ward Hussin, Nasiru Zakari Muhammad and Ogunbode Ezekiel Babatunde Strength and Microstructure of Concrete with Iron Ore Tailings as Replacement for River Sand (<i>Paper ID - 25</i>)
11.25 am	Nor Hasanah Abdul Shukor Lim, Mostafa Samadi, Abdul Rahman Mohd Sam, Nor Hafizah Abd Khalid, Noor Nabilah Sarbini and Nur Farhayu Ariffin Influence of High Volume Oil Palm Biomass Waste on Drying Shrinkage of Mortar (<i>Paper ID - 47</i>)
11.45 am	Peter Nai Yuh Yek, Muhammad Rafiq Mirza Bin Julalhi, Mohammad Shahril Osman, Chuan Tiong Tung, Wak Ha Lee and Chern Leing Lee Submerged Glow-Discharge Plasma: A Sustainable Approach to Convert Construction Scrap Metal into Nanomaterials (<i>Paper ID -115</i>)
12.05 pm	Ilya Joochari and Nor Farhani Ishak Mechanical Properties of Lightweight Concrete Using Recycled Cement-sand Brick as Coarse Aggregates Replacement (<i>Paper ID - 126</i>)
12.25 pm	Abdolreza Toudedehghan, Md. Mujibur Rahman and Faris Tarlochan Mechanical and Thermal Analysis of Classical Functionally Graded Coated Beam (<i>Paper ID - 155</i>)
12.40 pm	Nor Balzura Hamid, Mardiha Mokhtar, Suhaila Sahat and Mohd Erwan Sanik A Study on Eco-Friendly Concrete Incorporating Dust Shell, Coconut Coir Dust and Coconut Husk Ash (<i>Paper ID - 53</i>)

Session 4 : 2.30 pm - 4.30 pm

Theme : Construction Material
Chairperson : PM. Dr. Khairul Nizar Ismail
Assistant : Ms. Siti Nasuha Sabri

<u>Time</u>	<u>Presenter</u>
2.30 pm	Zaidahtulakmal Mohd Zahib, Kartini Kamaruddin and Hamidah Mohd Saman Strenght Performance of Blended Ash Based Geopolymer Mortar Achvated with 8M and 10M of NaOH and Sodium Silicates (<i>Paper ID - 70</i>)
2.45 pm	Indra Surya, Syahrulfauzi Siregar and Hanafi Ismail The effects of Alkanolamide Addition on Cure Characteristics, Swelling Behaviour and Tensile Properties of Silica-Filled Natural Rubber (NR) / Chloroprene Rubber (CR) Blends (<i>Paper ID - 128</i>)
3.00 pm	Mohammed Ali Mohammed Al-Bared, Aminaton Marto and Fauziah Kasim Compaction and plasticity comparative behaviour of soft clay treated with coarse and fine sizes of ceramic tiles (<i>Paper ID - 59</i>)
3.15 pm	Mazizah Ezdiani Palm Oil Fuel Ash (POFA) and Eggshell Powder (ESP) as Partial Replacement for Cement in Concrete (<i>Paper ID - 27</i>)
3.30 pm	Siti Khatijah Abu Bakar, Mohd Ezree Abdulah, Mazlina Mustafa Kamal and Rosnawati Buhari Evaluating the Rheological Properties of Waste NR Latex Modified Binder (<i>Paper ID - 163</i>)
3.45 pm	Norhayati Ngadiman, Masiri Kaamin, Asliia Abd Kadir and Suhaila Sahat Panel Board from Coconut Fibre and Pet Bottle (<i>Paper ID - 64</i>)
4.00 pm	Crystal Gayle's Robert and Afizah Ayob Effect of Mixing Fly Ash and Bottom Ash and Chemical Treatment using SLS and PVA towards Density (<i>Paper ID - 77</i>)

Presentation Schedule

International Conference on Civil and Environmental Engineering (CENVIRON 2017)

Date : 28 - 29 November 2017

Venue: Flamingo Hotel by the Beach, Penang

Day 1 (28th November 2017, Tuesday) Gald Dailroom

Session 2 : 10.45 am - 12.45 pm

Theme : Water and Wastewater
Chairperson : Dr. Abdul Haqi Ibrahim
Assistant : Ms. Nur Aqilah Mohd Razali

<u>Time</u>	<u>Presenter</u>
10.45 am	Pradeep Singa, Mohamed Hasnain Isa, Yeek-Chia Ho and Jun-Wel Um Treatment of hazardous waste landfill leachate using Fenton oxidation process (<i>Paper ID - 119</i>)
11.05 am	Kakoli Karar Paul and Rijwana Parwin Treatment of kitchen wastewater using <i>Eichhornia crassipes</i> (<i>Paper ID - 118</i>)
11.25 am	Augustine Chioma Affam, Chee Chung Wong and Mohammed A. B. Seyam Preparation, Characterization and Adsorption Study of Granular Activated Carbon/Iron oxide composite for the Removal of Boron and Organics from Wastewater (<i>Paper ID - 24</i>)
11.45 am	Talia Afzal, Hasnain Isa and Muhammad Raza Mustafa Removal of Organic pollutants from Produced water using Fenton's Oxidation (<i>Paper ID - 121</i>)
12.05 pm	Nur Zarifah Zalnuri, Nur Hanis Hayati Hairom, Dilaeleyana Abu Bakar Sidik, Nurasyikin Misdan, Norhaniza Yusof and Abdul Wahab Mohammad Reusability Performance of Zinc Oxide Nanoparticles for Photocatalytic Degradation of POME (<i>Paper ID - 43</i>)
12.25 pm	Siti Fatimah Zahra Mohd Sarif, Syifa' Syahida Alias, Muhammad Ridwan Fahmi, Ku Sahrom Ku Sallim, Che Zulzulkrami Azner Abidin and Umi Fazara Md. Ali Ozonation of return activated sludge for disintegration and solubilisation with synthesized titanium oxide as catalyst (<i>Paper ID - 31</i>)

Session 5 : 2.30 pm - 4.30 pm

Theme : Water and Wastewater; Hydrology
Chairperson : Dr. Che Zulzulkrami Azner Abidin
Assistant : Ms. Nur Aqilah Mohd Razali

<u>Time</u>	<u>Presenter</u>
2.30 pm	Muhammad Hanis Tajuddin, Norhaniza Yusof, Wan Norharyati Wan Salleh, Ahmad Fauzi Ismail, Nur Hanis Hayati Hairom and Nurasyikin Misdan Incorporation of layered double hydroxide nanomaterials in thin film nanocomposite nanofiltration membrane for magnesium sulphate removal (<i>Paper ID - 12</i>)
2.50 pm	Veeresh Gali, Manisha Thakur, Ashok Kumar Gupta and Rajiv Ganguly Role of UASBs in River Water Quality Conservation in India (<i>Paper ID - 154</i>)
3.10 pm	Almahd Rabia, Abdul Haqi Ibrahim and Nik Noriman Zulkepli Preparation and Characterization of Activated Alumina (<i>Paper ID - 170</i>)
3.30 pm	Syarifah Intan Najla Syed Hashim, Siti Hidayah Abu Talib and Muhammad Salleh Abustan The Composition and Distribution of Water and Sediment Quality in Sembong Reservoir using Coring Technique (<i>Paper ID - 62</i>)
3.50 pm	Nurul Hidayah Ishak and Ahmad Mustafa Hashim Dam Pre-Release as An Important Operation Strategy in Reducing Flood Impact in Malaysia (<i>Paper ID - 69</i>)
4.10 pm	Muhammad Khairudin Khalil and Azinoor Azida Abu Bakar The Effects of Saltwater Intrusion to Flood Mitigation Project (<i>Paper ID - 165</i>)

Presentation Schedule

International Conference on Civil and Environmental Engineering (CENVIRON 2017)

Date : 28 - 29 November 2017

Venue: Flamingo Hotel by the Beach, Penang

Day 1 (28th November 2017, Tuesday)

Pink Ballroom

Session 3 : 10.45 am - 12.45 pm

Theme : Structural Engineering
Chairperson : Mdm. Norlia Mohamad Ibrahim
Assistant : Ms. Nur Izzah Mohamad Hashim

<u>Time</u>	<u>Presenter</u>
10.45 am	Roslida Abd. Samat, Fong Teng Chua, Nur Akmal Hayati Mohd Mustakim, Sariffuddin Saad and Suhaimi Abu Bakar Lateral Displacement And Shear Lag Effect Of Combination Of Diagrid-Frame Structure (Paper ID - 48)
11.05 am	Sk Muiz Sk Abd Razak, Azlan Adnan, Tze Cheng Kong and Mohammadamin Azimi A Review on the Influence of Various Types of Structural Bracing to Structural Performance of Buildings (Paper ID - 50)
11.25 am	Ahmad Nurfaidhi Rizalman, Mahmood Md Tahrir and Shahrin Mohammad Parametric Study of Fire Performance of Concrete Filled Hollow Steel Section Columns with Circular and Square Cross-Section (Paper ID - 52)
11.45 am	Liong-Yew Huang, Noor Nabilah Sarbini, Izni Syahrizal Ibrahim, Chau Khun Ma and Nor Hasanah Abdul Shukur Lim Effects of Volume Fraction to the Strength and Ductility of a Small-Scaled Fibre Reinforced Concrete Beam (Paper ID - 80)
12.05 pm	Khin Cho Myint Application of GNSS Methods for Monitoring Offshore Platform Deformation (Paper ID - 82)
12.25 pm	Matthew Guan, Montasir Osman and Cheng Yee Ng Prediction of FPSO Responses Using Different Numerical Analysis Methods (Paper ID - 117)
12.30 pm	Amin Ghannadiasl Computer-Based Mathematical Package for Solution of the Euler-Bernoulli Beam on Elastic Foundation by Collocation Method (Paper ID - 169)
12.45 pm	Iraj Toloue Sheikhzadeh Yazd A novel approach to enhance the accuracy of vibration control of Frames (Paper ID - 113)

Session 6 : 2.30 pm - 4.30 pm

Theme : Air Pollution
Chairperson : Dr. Norazian Mohamed Noor
Assistant : Ms. Nur Izzah Mohamad Hashim

<u>Time</u>	<u>Presenter</u>
2.30 pm	M. Dewika Naidu, M. Rashid M. Yusof and M.R. Ammar M. Rashid Performance of A Retrofitted a Multi-Cyclone for Fine Particulate Emission Control (Paper ID - 37)
2.50 pm	Nadiah Syafiqah Hj Abdullah National Air Quality: Overview of Status and Trends through Air Pollution Index of Malaysia (APIMS) (Paper ID - 88)
3.10 pm	Rudini, Abdul Nasir Matori and Jasmi Ab Talib Application of Geography Information System (GIS) to modeling hydrocarbon migration; Case study of North-East Malay Basin, Malaysia (Paper ID - 90)
3.30 pm	Nurul Zufarhana Zulkurnai, Umi Fazara Md. Ali, Naimah Ibrahim and Ninie Suhana Abdul Manan Adsorption of Carbon Dioxide Using Sea Mango Activated Carbon Functionalized by Deep Eutectic Solvent (Paper ID - 104)
3.50 pm	Farahiyah Abdul Rahman, Md Maniruzzaman A. Aziz, R. Saidur and Wan Azelee Wan Abu Bakar A review of methods for estimating the gas emission for combustion analysis in industrial sector (Paper ID - 123)

Presentation Schedule

International Conference on Civil and Environmental Engineering (CENVIRON 2017)

Date : 28 - 29 November 2017

Venue: Flamingo Hotel by the Beach, Penang

Day 2 (29th November 2017, Wednesday) Flamingo Ballroom

Session 7 : 10.45 am - 12.45 pm

Theme : Construction Material and Management
Chairperson : Mdm. Ilya Joohari
Assistant : Ms. Siti Nasuha Sabri

Time Presenter

- 10.45 am Faisal Sheikh Khalid, Nurul Bazilah Azmi, Puteri Natasya Mazenan, Shahron Shahidan and Noorwirdawati Ali
The mechanical properties of brick containing recycled concrete aggregate and polyethylene terephthalate waste as sand replacement (*Paper ID - 9*)
- 11.00 am Mardiha Mokhtar, Masiri Kaamin and Suhaila Sahat
The Utilisation of Shredded Pet as Aggregate Replacement for Interlocking Concrete Block (*Paper ID - 38*)
- 11.15 am Suhaila Sahat, Nor Farah Atiqah Ahmad, Siti Noor Ailin Mohd Razali, Masiri Kaamin, Mardiha Mokhtar, Nor Baizura Hamid and Norhayati Ngadiman
Effectiveness Corncob as a Thermal Isolation Material (*Paper ID - 58*)
- 11.30 am Hamidun Bin Mohd Noh and Nur'Alin Bin Idris
Structural Effects of Reinforced Concrete Beam Due to Corrosion (*Paper ID - 101*)
- 11.45 am Nur Farhayu Ariffin, Nor Hasanah Abdul Shukor Lim, Mohd Idris Ali, Noram Irwan Ramli, Khairunisa Muthusamy and Mohd Faizal Md Jaafar
Investigation on factors that contribute to the abandonment of building in construction industry in Malaysia (*Paper ID - 106*)
- 12.00 pm Rosnawati Buhari
Laboratory Study on The Fatigue Resistance of Asphaltic Concrete Containing Titanium Dioxide (*Paper ID - 96*)
- 12.30 pm Norsuzallina Mohamed Sutan, Nur Izaitul Akma Ideris, Siti Noor Linda Taib, Delsye Ching Lee Teo, Aisidqi Hasan, Siti Kudnie Sahari, Khairul Anwar Mohamad Said and Habibur Rahman Sobuz
Microstructural characterization of catalysis product of nano cement based materials (*Paper ID - 168*)

Session 10 : 2.30 pm - 4.30 pm

Theme : Geotechnical Engineering
Chairperson : Ir. Zuhayr Md. Ghazali
Assistant : Ms. Siti Nasuha Sabri

Time Presenter

- 2.30 pm Nur Jihan Syamimi Jafri, Mohd Asri Ab Rahim, Mohd Zulham Affandi Mohd Zahid, Muhammad Munsif Ahmad, Nor Faizah Bawadi, Ahmad Faizal Mansor and Wan Mohd Sabki Wan Omar
Assessment of soil compaction properties based on surface wave techniques (*Paper ID - 18*)
- 2.50 pm Yamusa Bello Yamusa, Nor Zurairahetty Mohd Yunus, Kamarudin Ahmad, Norhan Abd Rahman and Radzuan Sa'ari
Effects of Fines Content and Morphology of Laterite Soil as Hydraulic Barrier (*Paper ID - 34*)
- 3.10 pm Kraipat Petrit, Poonnapa Klamchim and Helmut Duerrast
3D resistivity survey for shallow subsurface fault investigations (*Paper ID - 45*)
- 3.30 pm Siti Noorain Mohd Razali, Adnan Zainorabidin, Mohamad Fazrul Md Jaafar, Nor Farah Atiqah Ahmad, Masiri Kaamin and Mohd Khaidir Abu Talib
Workability of VAAC in Peat (*Paper ID - 49*)
- 3.50 pm Talal Masoud
Optimization of Shape Design for Gravity Retaining Walls (*Paper ID - 105*)

Presentation Schedule

International Conference on Civil and Environmental Engineering (CENVIRON 2017)

Date : 28 - 29 November 2017

Venue: Flamingo Hotel by the Beach, Penang

Day 2 (29th November 2017, Wednesday) Gold Ballroom

Session 8 : 10.45 am - 12.45 pm

Theme : Hydrology
Chairperson : Ir. Zuhayr Md. Ghazali
Assistant : Ms. Nur Aqilah Mohd Razali

<u>Time</u>	<u>Presenter</u>
10.45 am	Tan Kim Hek, Mohammad Fadzli Ramli, Iryanto Iryanto and Mohd Falz Mohammad Zaki Generalization of water pricing model in agriculture and domestic groundwater for water sustainability and conservation (<i>Paper ID - 30</i>)
11.00 am	Mohamed Latheef Effect of second order nonlinearities on the prediction of directional spectrum (<i>Paper ID - 40</i>)
11.15 am	Ervin Tiu Shan Khai, Huang Yuk Feng and Ling Lloyd Improving the Performance of Streamflow Forecasting Model Using Data-Preprocessing Technique in Dungun River Basin (<i>Paper ID - 46</i>)
11.30 am	Nur Zawani Zahari and Ahmad Mustafa Hashim Towards A More Sustainable Flood Relief Centres (<i>Paper ID - 67</i>)
11.45 am	Faizah Che Ros Rainfall Spatial Distribution Analysis for Kelantan River Basin, Malaysia (<i>Paper ID - 75</i>)
12.00 pm	Nazirah Azizah and Wan Mohd. Sabki Wan Omar Assessment of Three Flood Hazard Mapping Methods. A Case Study of Perlis (<i>Paper ID - 98</i>)
12.30 pm	Adilah Abdul Kadir, Zulkifli Yusop, Zainura Zainon Noor and Nor Bakhiah Baharim Environmental Flow for Sungai Johor Estuary (<i>Paper ID - 146</i>)

Session 11 : 2.30 pm - 4.30 pm

Theme : Noise Pollution; Remediation
Chairperson : Dr. Tengku Nuraiti Tengku Izhair
Assistant : Ms. Nur Aqilah Mohd Razali

<u>Time</u>	<u>Presenter</u>
2.30 pm	Masri Kaamin, Norhayati Ngadiman, Nor Farah Atiqah Ahmad, Siti Nooraini Mohd Razali, Aslila Abdul Kadir, Mardha Mokhtar and Suhaila Sahat Study on The Effectiveness of Egg Carton and Cor Fibre as A Sound Absorber (<i>Paper ID - 20</i>)
2.45 pm	Zanariah Jahya, Zaiton Haron, Musli Nizam Yahya, Dianah Mazlan and Nadirah Darus Preliminary investigation of acoustical properties of concrete containing oil palm shell as an aggregate replacement (<i>Paper ID - 65</i>)
3.00 pm	Zaiton Haron, Nadirah Darus, Khairulzan Yahya, Wan Mohammad Asyraf Norudin, Muhammad Habab Abd Halil and Muhammad Azril Hezmi Noise Annoyance Produced by Commercial Vehicles Transit on Rumble Strips (<i>Paper ID - 81</i>)
3.15 pm	Ain Naadia Mazlan, Khairulzan Yahya, Zaiton Haron, Edrin Nazri Abd Rasib and Mohd Nizam Jamaluddin Characteristic of Noise-induced Hearing Loss Among Workers in Construction Industry (<i>Paper ID - 85</i>)
3.30 pm	Lim Jin Wei, Ong Teng Haan, Thomas Choong Shean Yaw, Luqman Chuah Abdullah, Mus'Ab Abdul Razak, Tezara Cionta and Abdolreza Toudehdeghhan Heavy metal recovery from electric arc furnace steel slag leaching by using hydrochloric acid (<i>Paper ID - 28</i>)
3.45 pm	Habiba Ibrahim Mohammed, Zulkepli Majid, Norhakim Bin Yusof and Yamusa Bello Yamusa Analysis of Multi-Criteria Evaluation Method of Landfill Site Selection for Municipal Solid Waste Management (<i>Paper ID - 36</i>)
4.00 pm	Siti Mazjida Mazlan, Norsuzailina Mohamed Sutan, Siti Noor Linda Taib, Delsye Ching Lee Teo, Alisdqi Hassan, Siti Kudnie Sahari, Khairul Anwar Mohamad Said and Habibur Rahman Sobuz Biomass Morphology Subjected to Different Chemical Treatment (<i>Paper ID - 167</i>)

Presentation Schedule

International Conference on Civil and Environmental Engineering (CENVIRON 2017)

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Day 2 (29th November 2017, Wednesday)

Pink Ballroom

Session 9 : 10.45 am - 12.45 pm

Theme : Transportation and Highway
Chairperson : Dr. Nik Zainab Nik Aziz
Assistant : Ms. Nur Izzah Mohamad Hashim

<u>Time</u>	<u>Presenter</u>
10.45 am	Faiznur Syahidah Sulaiman, Nadirah Darus, Nordiniana Mashros, Zaiton Haron and Khairulzan Yahya Traffic Noise Assessment at Residential Areas in Skudai, Johor (Paper ID - 84)
11.00 am	Adel Gohari The impacts of Fuel Price changes on the Operating Cost of Containerized Freight Transportation (Paper ID - 97)
11.15 am	Siti Zahrah Ahmad Hasif, Mohd Firdaus Mohamad Ali and Muhammad Salleh Abustan Study on Walking Speeds of Pedestrian at The Bus Terminal (Paper ID - 99)
11.30 am	Nadirah Darus, Zaiton Haron, Khairulzan Yahya, Muhammad Habab Abd Halil, Wan Mohammad Asyraf Norudin and Muhammad Azril Hezmi Impulsivity of Noise Due to Single Lightweight Vehicles Transit on Transverse Rumble Strip (Paper ID - 86)
11.45 am	Ahmad Kamil Arshad, Ekarizan Shaffie and Wardati Hashim Performance Evaluation of Hot Recycled Mix with Different Proportions of Reclaimed Asphalt Content (Paper ID - 109)
12.00 pm	Rosnawati Buhari, Mohd Ezree Abdullah and Ahmad Mohd Khairul Physical and Rheological Properties of Titanium Dioxide Modified Asphalt (Paper ID - 158)
12.30 pm	Mohd Firdaus Mohamad Ali, Muhammad Salleh Abustan, Siti Hidayah Abu Talib, Noorhazlinda Abdul Rahman, Ismail Abustan and Hitoshi Gotoh Psychological Distance of Pedestrian at the Bus Terminal Area (Paper ID - 161)
12.45 pm	Nurul Wahjuningsih, Sigit Pranowo Hadiwardoyo and Ischrizal Sumabrata Characteristics Buton Natural Asphalt -Rubber (BNA-R) on the Warm Mix Asphalt performance improvement using natural zeolite (Paper ID - 151)

Session 12 : 2.30 pm - 4.30 pm

Theme : Energy / Sustainable Technology
Chairperson : Dr. Khairuddin Mat Isa
Assistant : Ms. Nur Izzah Mohamad Hashim

<u>Time</u>	<u>Presenter</u>
2.30 pm	Siew Yoong Leong, Soo Shin Chong and Kah Seng Chin Biodiesel Derive Bio-oil of <i>Hermetia illucens</i> Pre-pupae Catalysed By Sulphonated Biochar (Paper ID - 16)
2.50 pm	Noor Illi Mohamad Puad, Nuraini Farhan Abd Rahim and Azlin Suhaida Azmi Acid Pretreatment of Sago Wastewater for Biohydrogen Production (Paper ID - 42)
3.10 pm	Fakhriah Fakhruddin and Dr. Azlin Suhaida Azmi Electricity Generation in Microbial Fuel Cell (MFC) by Bacterium Isolated from Rice Paddy Field Soil (Paper ID - 122)
3.30 pm	Muhammad Arkam Che Munaaim, Norashikin Razali, Afizah Ayob and Nasrul Hamidin Potential of Micro Hydroelectric Generator Embedded at 30,000 PE Effluent Discharge of Sewerage Treatment Plant (Paper ID - 133)
3.50 pm	Atikah Mohamed Sharikh, Sarina Sulaiman and Azlin Suhaida Azmi Fruit Peel as Heterogeneous Catalyst for Biodiesel Production (Paper ID - 19)

Organising Committee

International Conference on Civil and Environmental Engineering (CENVIRON 2017)

Date : 28 - 29 November 2017

Venue: Flamingo Hotel by the Beach, Penang

Patron

Dato' Prof. Dr. Zul Azhar Zahid Jamal
Prof. Dr. Uda Hashim

Advisor

Assoc. Prof. Dr. Nasrul Hamidin

Chairman

Ir. Dr. Mohd Asri Ab Rahim

Co-Chairman

Mr. Saiful Azhar Saad

Secretary

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