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## MOHD ROSLI MOHD HASAN, Ph.D.

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### EDUCATION:

<i>Michigan Technological University</i> , Houghton, Michigan	2012 – 2015
Ph.D. in Civil Engineering (Transportation Materials)	
<i>Michigan Technological University</i> , Houghton, Michigan	2012 - 2014
Master of Science in Civil Engineering (Transportation Materials)	
<i>Universiti Sains Malaysia</i> , Penang, Malaysia	2008 - 2011
Master of Science in Civil Engineering (Asphalt Technology)	
<i>Universiti Teknologi MARA</i> , Penang, Malaysia	2005 - 2008
Bachelor of Engineering in Civil (Hons)	
<i>Universiti Teknologi MARA</i> , Perlis, Malaysia	2002 - 2005
Diploma in Civil Engineering (Construction)	

### THESIS AND DISSERTATION:

Ph.D. <i>Michigan Technological University</i> , Houghton, Michigan	2015
<i>Assessments of Low Emission Asphalt Mixtures Produced using Combinations of Foaming Agents</i>	
M.Sc (Mixed Mode-Transportation Materials), <i>Michigan Technological University</i> ,	2014
<i>Performance Evaluation of LLDPE/CaCO<sub>3</sub> Modifiers with and without Titanate Coupling Agent on Asphalt binder and Mixture</i>	
M.Sc (Research Mode-Asphalt Technology), <i>Universiti Sains Malaysia</i> , Penang, Malaysia	2011
<i>Studies on Binder Creep, Abrasion Loss and Dynamic Stripping Of Porous Asphalt</i>	

### RESEARCH INTERESTS:

Sustainable Transportation Materials, Life Cycle Assessment, Pavement Design, Asphalt Technology

### RESEARCH EXPERIENCES:

- **Fundamental Understanding of Foaming Process Towards a New Warm Mix Asphalt Technology**-National Science Foundation (NSF) (August 2013 – Present). My contribution: Comprehensive evaluation on the low emission binders and mixtures produced using foaming technique.
- **Performance Evaluation of LLDPE/CaCO<sub>3</sub> modifiers with and without Titanate Coupling Agent on Asphalt Binder and mixture** (summer 2013 - Spring 2014). My contribution: Conduct all the laboratory tests, drafted the final report and wrote two papers from this project.
- **Micromechanics of Cubic Stone Materials for Pavements**-National Science Foundation (NSF) IRES. (August 2009 –August 2012) My contribution: Conduct all the laboratory tests, drafted the final report and wrote two papers from this project.
- **Evaluation of Foamed Warm Mix Asphalt Binder and Mixture**-Michigan Department of Transportation (MDOT). (August 2011 –August 2013) My contribution: Conduct most of the laboratory tests, drafted the final report.
- **Developing Induction Healing System and Techniques for Long-Life Asphalt Pavement. (Spring and Summer 2012)**, My contribution: Design the test setup and conduct the experimental works, Published a paper in the Journal of Construction and Building Materials, Elsevier
- **Rehabilitation of Al Garabolli - Misuratah Coastal Road, Libya**, (2008 – 2009), Sponsor: Nurol Insaat Ve Ticaret, A.S., My contribution: Conduct the laboratory tests and pavement design, help draft the final report.
- **Characterizations of Abrasion Loss, Clogging Behavior and Binder Creep to Enhance Properties of Porous Asphalt** (2008-2011), Sponsor: Ministry of Science, Technology and Innovation (MOSTI), Malaysia
- **Evaluation of Modified Binder PG-76 and Cariphalte FS Properties**, (2010) Sponsor: Shell Ltd. (Singapore).
- **Evaluation of Aggregate Properties for Section 3, North-South Expressway in Malaysia** (2010), Sponsor: KUAD Sdn. Bhd., Penang, Malaysia

## TEACHING EXPERIENCES

- **Construction and Civil Engineering Materials, CE3101, Michigan Technological University, Spring 2012-Spring 2013**  
Instructed required laboratory sections offered for junior and senior students. The lab section took three hours every week, covering metal, soil and aggregate, concrete, bituminous and wood materials. Other responsibilities included: operating material test equipment, grading lab reports, quizzes, homework and exams

## ACADEMIA INVOLVEMENTS & PROFESSIONAL TRAININGS:

- Journal Reviewer
  1. Reviewer of International Journal of Engineering (2012 – To Date)
  2. Reviewer of Jurnal Teknologi, Universiti Teknologi Malaysia (2014 – Present)
  3. Reviewer of Ain Shams Engineering Journal (ASEJ), Elsevier (2015 – To date)
  4. Journal of Materials in Civil Engineering, ASCE (2015 – To Date)
- Conference Reviewer
  1. Reviewer of International Conference of Chinese Transportation Professionals (ICCTP 2012)
  2. Reviewer of International Conference on Road and Airfield Pavement Technology (ICPT 2013)
- RILEM Technical Committee CMB (*Chemo-Mechanical Characterization of Bituminous Materials*) Combined Asphalt Meeting – Fall 2013
- Attended Professor Training Course at National Center for Asphalt Technology (NCAT), Alabama, USA

## ASSISTANT SUPERVISION OF UNDERGRADUATE STUDENTS (FINAL YEAR PROJECT)

Student	Title	Graduation
Eng Jia Yih	Effects of Break Point Locations and Nominal Maximum Aggregate Size on Porous Asphalt Properties	2010
Lim Kean Sin	Effects of Introducing Gaps in Porous Asphalt Gradation on Binder Creep Behavior	2011
Wong Tau Kie	Engineering Properties of Modified Dutch Porous Asphalt Mixtures	2011

## PUBLICATIONS

### *Journal Papers (Under Review, Accepted and Published)*

- Baron Colbert, **Mohd Rosli Mohd Hasan**, Zhanping You, (2015) A Hybrid Strategy to Optimize Innovative Sustainable Materials for Asphalt Mixtures using Graphical Modeling and Emissions during Production, Journal of Traffic and Transportation Engineering, Elsevier [Accepted]
- **Mohd Rosli Mohd Hasan**, Zhanping You (2015) Ethanol Based Foamed Asphalt as Potential Alternative for Low Emission Asphalt Technology, Journal of Traffic and Transportation Engineering, Elsevier [Accepted]
- **Mohd Rosli Mohd Hasan**, Meor Othman Hamzah, Martin van de Ven, Jan Voskuilen, (2015) Disruption of Air Voids Continuity Based on Permeability Loss due to Mortar Creep, Journal of Construction and Building Materials, Elsevier [Under Review Process]
- **Mohd Rosli Mohd Hasan**, Zhanping You, David Porter, and Shu Wei Goh (2015) Laboratory Moisture Susceptibility Evaluation of WMA under Possible Field Conditions, Journal of Construction and Building Materials, Elsevier [In-press]
- Ali Jamshidi, **Mohd Rosli Mohd Hasan**, Hui Yao, Zhanping You and Meor Othman Hamzah. (2015), Characterization of the Rate of Change of Rheological Properties of Nano-Modified Asphalt, Journal of Construction and Building Materials 98, pp. 437-446
- Christopher D. DeDene, Shu Wei Goh, **Mohd Rosli Mohd Hasan**, and Zhanping You (2015) Laboratory Performance Based Cost Assessment of Warm-Mix Asphalt Concrete Technologies, International Journal of Pavement Research Technology 8(1), p 38-46.
- **Mohd Rosli Mohd Hasan**, Zhanping You (2015) Estimation of cumulative energy demand and greenhouse gas emissions of ethanol foamed WMA using life cycle assessment analysis, Construction and Building Materials [In Press]

- **Mohd Rosli Mohd Hasan**, Jacob E. Hiller, Zhanping You (2015) Effects of Mean Annual Temperature and Mean Annual Precipitation on the Performance of Flexible Pavement using ME Design, International Journal of Pavement Engineering
- **Mohd Rosli Mohd Hasan**, David Porter and Zhanping You, (2015) Synthesis of Longitudinal Joint Of flexible Pavement, Jurnal Teknologi 73 (4), p 7-14
- M.O. Hamzah, S. S. Lo, Z. You, **M. R. Mohd Hasan**, NH Abdullah (2014) Effects of Geometrically Cubical Shaped Aggregate on the Engineering Properties of Porous Asphalt, Sains Malaysiana 43 (2), pp 303-312
- **M. R. Mohd Hasan**, D. J. Y. Eng, M. O. Hamzah, J. L. M. Voskuilen (2013) The Effects of Break Point Locations and Nominal Maximum Aggregate Size on Porous Asphalt Properties, Journal Construction and Building Materials 44, pp 360-367.
- M. O. Hamzah, Z. F. Mohamed Jaafar, **M. R. Mohd Hasan**, A. Shingani, S. H. A. Talib, S. S. M. Tahir (2013) Binder flow due to gravitational forces in asphalt mixes, International Journal of Pavements
- **Mohd Rosli Mohd Hasan**, Shu Wei Goh and Zhanping You (2013) Comparative study on the properties of WMA mixture with different foaming techniques, Construction and Building Materials 48, p. 45-50.
- Qingli Dai, Zigeng Wang, **Mohd Rosli Mohd Hasan** (2013) Investigation of induction healing effects on electrically conductive asphalt mastic and asphalt concrete beams through fracture-healing tests, Construction and Building Materials 49, p. 729 -737.
- Shu Wei Goh, **Mohd Rosli Mohd Hasan**, Zhanping You (2013) Performances Evaluation of Cecabase® RT in Warm Mix Asphalt Technology, Procedia-Social and Behavioral Sciences 96, p. 2782-2790
- Meor Othman Hamzah, **Mohd Rosli Mohd Hasan**, Martin van de Ven, Ahmad Shukri Yahaya (2012) The effects of initial conditioning and ambient temperatures on abrasion loss and temperature change of porous asphalt, Journal Construction and Building Materials 29, pp. 108-113.
- Meor Othman Hamzah, **Mohd Rosli Mohd Hasan**, Martin van de Ven (2012) Permeability Loss in Porous Asphalt Due to Binder Creep, Journal Construction and Building Materials 30, pp. 10-15.
- Meor Othman Hamzah, **Mohd Rosli Mohd Hasan**, Kean Sin Lim, Ahmad Shukri Yahaya (2012) Effects of gap in the fine aggregate gradation of porous asphalt on mix permeability loss due to binder creep, International Journal of Pavements (IJP), volume 10 Number 1-3, pp 72
- M.O. Hamzah, **M. R. Mohd Hasan**, M. R. Ismail and Z. Shahadan (2010) Effects of Temperature on Abrasion Loss of Porous and Dense Asphalt Mixes, European Journal of Scientific Research 40 (4), pp.589-597
- M.O. Hamzah, **M. R. Mohd Hasan**, C.N. Che Wan and N.H. Abdullah (2010) A Comparative Study on Performance of Malaysian Porous Asphalt Mixes Incorporating Conventional and Modified Binders, Journal of Applied Sciences 10 (20), pp. 2403-2410.
- M. O. Hamzah, A. Jamshidi, Z. Shahadan, **M. R. Mohd Hasan** and A. S. Yahaya (2010) Evaluation of Engineering Properties and Economic Advantages of WMA Using Local Materials, Journal of Applied Sciences 10 (20), pp. 2433-2439.

#### *Conference Papers*

- **Mohd Rosli Mohd Hasan**, David Porter, Hui Yao, Shu Wei Goh, and, Zhanping You (2016) Evaluations of Plant-Produced Foamed Warm Mixture Asphalt, 4th GeoChina International Conference 2016, Shandong, China, Will be presented July 25 to 27, 2016
- **Mohd Rosli Mohd Hasan**, Zhanping You (2015) Assessments of Low Emission Asphalt Mixture produced using Combination of Foaming Agents, Post Graduate Colloquium 2015, Organized by Education Malaysia Chicago, Itasca, Illinois, USA, October 9-11, 2015
- **Mohd Rosli Mohd Hasan**, Meor Othman Hamzah. Relationship between particle size factors in aggregate gradations and the performance of open-graded mixtures, International Committee on Pavement Technology (ICPT) 2015, Dalian, Liaoning, China, August 9-13, 2015
- **Mohd Rosli Mohd Hasan**, Meor Othman Hamzah, Pengiran Sakai (2014), Effects of initial conditioning temperature on cantabro test result of porous asphalt mixes, 3rd international conference on transportation infrastructure, pisa, italy, april 22-25, 2014
- **Mohd Rosli Mohd Hasan** and Zhanping You, (2013) A Synthesis: Longitudinal Joint Of Asphalt Pavement, 9<sup>th</sup> International Conference of Geotechnical and Transportation Engineering (Geotropika) and 1<sup>st</sup> International Conference on Construction and Building Engineering (Iconbuild) - Geocon2013, 28<sup>th</sup> To 30<sup>th</sup> October 2013, Johor Bahru, Johor, Malaysia

- Shu Wei Goh, **Mohd Rosli Mohd Hasan**, Zhanping You (2013) Performances Evaluation of Cecabase® RT in Warm Mix Asphalt Technology, 13th COTA International Conference of Transportation Professionals (CICTP 2013), August 13-6, 2013, Shenzhen, China
- Qingli Dai, Zigeng Wang and **Mohd Rosli Mohd Hasan**, (2013) Investigation of Induction Healing Effects on Electrically Conductive Asphalt Concrete Beam through Fracture-Healing Tests, Engineering Mechanics Institute (EMI) 2013, August 4-7, 2013, Northwestern University
- M.O. Hamzah, A. Shingani, S. H. A. Talib, Z. F. M. Jaafar, **M. R. Mohd Hasan** And S. S. M. Tahir (2013) Binder Flow Due To Gravitational Forces In Asphalt Mixes, International Journal Of Pavements Conference 2013 (IJPC) – Proceedings, São Paulo, Brazil, December 9 - 10, 2013
- Hamzah M. O., Omranian, S. R., Jamshidi, A. and **Mohd Hasan, M. R.** (2012) Simulating laboratory short term aging to simulate Malaysian field conditions, World Academy of Science, Engineering and Technology Conference (WASET 2012), December 22-23, Bangkok, Thailand.
- M. O. Hamzah, **M. R. Mohd Hasan**, G. Van Bochove (2012) Rational Control Parameters For Determination Of Design Binder Content Of Porous Asphalt, 5<sup>th</sup> Eurasphalt And Eurobitume Congress 2012, 13-15 June, Istanbul, Turkey
- M. O Hamzah, **M. R. Mohd Hasan**, M. F. C. Van De Ven, J. L. M. Voskuilen (2012) Development of dynamic stripping machine for better prediction of moisture damage on porous asphalt in the field, 7th RILEM International Conference on Cracking in Pavements, 20-22 June, 2012, Delft, The Netherlands
- **Mohd Hasan M. R.**, Hamzah M. O. ,Wong T. K., (2012) The effects of Introducing Gap in the Aggregate Gradation on the Properties of Porous Asphalt, The 2nd International Conference on Electric Technology and Civil Engineering (ICETCE 2012), May 18-20, 2012, China.
- **M. R. Mohd Hasan**, M. O. Hamzah, N. H. Abdullah (2011), Analysis of Factors Influencing the Properties of Porous Asphalt Mixtures, Civil Engineering Colloquium 2010 (CEC 2010), Universiti Sains Malaysia, Nibong Tebal, Pulau Pinang (March 2011)
- Hamzah, M. O., Aman, M. Y., Shahadan, Z., **Mohd Hasan, M. R.** (2011) Laboratory Evaluation Of The Dynamic Stripping Test On Porous Asphalt Incorporating Sasobit®, 7<sup>th</sup> International Conference on Road and Airfield Pavement Technology (ICPT 2011), New Horizon of Pavement Technology, Bangkok, Thailand (August 2011)
- M. O. Hamzah and **M. R. Mohd Hasan** (2011) Proportion and Particle Size Distribution of Fine Aggregates Extracted From the Drained Binder in a Binder Drainage Test, World Academy of Science, Engineering and Technology (WASET), July 13-15, Amsterdam, Netherlands.
- M. O. Hamzah, Z. Shahadan, **M. R. Mohd Hasan** and A. Jamshidi (2010) Sustainable Asphalt – The Way Forward For the Malaysian Asphalt Industry, 8<sup>th</sup> Malaysian Road Conference (MRC 2010), Kuala Lumpur (October 2010)
- Meor Othman Hamzah, **Mohd Rosli Mohd Hasan**, Martin van de Ven (2009) Properties of Porous Asphalt Mixes Prepared According to Dutch Gradations Using Local Crushed Granites, Persidangan Kebangsaan Kejuruteraan Awam Kelima (AWAM'09), Kuala Lumpur (October 2009)

**Poster and Seminar Presentation:**

- **Mohd Rosli Mohd Hasan**, Zhanping You (2015) Assessments of Low Emission Asphalt Mixtures Produced Using Combinations of Foaming Agents, Civil Engineering Seminar – Fall 2015, October 22, 2015.
- **Mohd Rosli Mohd Hasan**, Zhanping You (2015) Assessment on Ethanol as an Alternative Physical Foaming Agent to Water in Foaming WMA Technology, Graduate Student Colloquium 2015
- Christopher Dedene, Shu Wei Goh, **Mohd Rosli Mohd Hasan**, Zhanping You, (2014) Laboratory Performance-Based Cost Assessment of Warm-Mix Asphalt Concrete Technology, Session 624, Presentation Number 14-1245, Board No C05, *Transportation Research Board*, 93<sup>rd</sup> Annual Meeting, January 12-16 2014, Washington D.C.
- *Qingli Dai, Zigeng Wang\* and Mohd Rosli Mohd Hasan* (2014) Investigation of Induction Healing Effects on Electrically Conductive Asphalt Mastic and Asphalt Concrete Beam through Fracture-Healing Tests, 2014 Graduate Research Colloquium, February 19<sup>th</sup> and 20<sup>th</sup> 2014.
- Mohd Rosli Mohd Hasan (2012) Development of Dynamic Asphalt Stripping Machine for Better Prediction of Moisture Damage of Porous Asphalt Pavement in Malaysia, Civil Engineering Seminar – Spring 2012, January 26, 2012.

**Technical Papers (Completed/ Awaiting Publication)**

- **Mohd Rosli Mohd Hasan**, Baron Colbert, Ali Jamshidi, Patricia A Heiden, Meor Othman Hamzah, (2015) A Simple Treatment to Electronic-Waste Plastics to Produce Asphalt Binder Additives with Improved Properties
- **Mohd Rosli Mohd Hasan**, Meor Othman Hamzah, and Rosmawati Abdul Razak, Effects of Compaction Delay on the Performance of Porous Asphalt Mixture Compacted at Different Thicknesses
- **Mohd Rosli Mohd Hasan**, Zhanping You, Julia A. King, Mohd Khairul Idham Mohd Satar, Muhammad Naqiuddin Mohd Warid, Nurul Hidayah Mohd Kamaruddin, Effects of Titanate Coupling Agent on Asphalt Binders and Mixtures Prepared Using LLDPE-CaCO<sub>3</sub> Modifier
- **Mohd Rosli Mohd Hasan**, Zhanping You, Julia A. King, Mohd Khairul Idham Mohd Satar, Muhammad Naqiuddin Mohd Warid, Nurul Hidayah Mohd Kamaruddin, Characterizations of Asphalt Binders and Mixtures Incorporating Calcium Carbonate and Linear Low Density Polyethylene
- **Mohd Rosli Mohd Hasan**, Zhanping You, Characterizations of Foamed Asphalt Binders Prepared Using Combinations of Physical and Chemical Foaming Agents
- **Mohd Rosli Mohd Hasan**, Zhanping You, Patricia A Heiden, Quantification of Physicochemical Properties and Advanced Performance of Foamed Asphalt Binders
- **Mohd Rosli Mohd Hasan**, Zhanping You, Assessments of Potential Service Characteristics of Ethanol and Ethanol-NaHCO<sub>3</sub> Foamed WMA Mixtures
- **Mohd Rosli Mohd Hasan**, Zhanping You, Performance of Ethanol and Ethanol-NaHCO<sub>3</sub> Based Foamed WMA Mixtures for Low Emission Asphalt Technology

**SELECTED REPORTS:**

- Zhanping You, Patricia A Heiden, **Mohd Rosli Mohd Hasan**, David Porter, SusChEM/Collaborative Research: Fundamental Understanding of Foaming Process towards a New Warm Mix Asphalt Technology, National Science Foundation (NSF) - September 2014 and October 2015
- Zhanping You, **Mohd Rosli Mohd Hasan**, Xu Yang (2013) Evaluation of Foamed Warm Mix Asphalt Binder and Mixture, Final report to Michigan Department of Transportation, September 2013
- Zhanping You, Baron Colbert, Shu Wei Goh, **Mohd Rosli Mohd Hasan** (2012) U.S.-Malaysia Planning Visit: Collaborative Research on the Micromechanics of Cubic Stone Materials for Pavements, Final Report to National Science Foundation (NSF) - International Research Experiences for Students (IRES) program, September 2012.
- Meor Othman Hamzah, **Mohd Rosli Mohd Hasan**, Noor Halizah Abdullah (2011) Characterisation Of Abrasion Loss, Clogging Behaviour And Binder Creep to Enhance Properties of Porous Asphalt (eScience Fund Project Number: 03-01-05-SF0433), Final Report to Ministry of Science, Technology and Innovation, Malaysia, May 2011

**SEMINAR AND COURSES ATTENDED**

**In Malaysia**

Title	Date
• Seminar on Soil Investigations, Piling Works and Rock Characterization	1 March 2006
• Data Analysis Workshop	2 March 2007
• International Short Course: Sediment Transport Theory And Practice (In collaboration between Colorado State University and UiTM)	14-18 April 2008
• Stress Management Workshop	25 Nov 2008
• Occupational Safety and Health Course for Postgraduate Students	28 Feb 2009
• Research Design Methodology	15-17 June 2009
• Scientific Writing	18-19 June 2009
• Data Analysis	22-25 June 2009
• Time Series and Regression Analysis	19-20 May 2010
• Professorial Talk by Professor Dr. Meor Othman Hamzah and Professor Dr. Fauziah Ahmad	15 Dec 2010
• Research Methodology	July 25-29, 2011

### In the United States

Title	Date
• MSA National Conference at Chicago USA (MTU Representative)	March 16-18 2012
• Research Ethics in Publishing Seminar	March 26 2012
• EndNote Workshop	July 18-19 2012
• Plagiarism, Paraphrasing and Citing Sources	September 13, 2012
• Impostor Syndrome	December 6, 2012
• Presentation Skills	January 22, 2013
• Financing and Budgeting for your Organization	January 29, 2013
• Integrated Communication Workshop	March 28, 2013
• Graduate Teaching Assistants Seminar	April 11, 2013
• Food Service Training for Parade of Nations Festival 2013	April 10, 2013
• Submitting your dissertation, thesis, or report	May 21, 2013
• Chemical Hygiene Training	June 26, 2013
• International GTA Program	Spring/Summer 2013
• Copyright for your thesis or dissertation	July 24, 2013
• President Training Workshop	August 14, 2013
• Community Safety for Graduate Students	Sept 9, 2013
• RILEM Technical Committee CMB ( <i>Chemo-Mechanical Characterization of Bituminous Materials</i> ) Combined Asphalt Meeting – Fall 2013, Chicago	Sept 17 – 20, 2013
• Chemical Hazard Communication	Nov 12, 2013
• Malaysian Students Association (MASA) Leaders Meeting and Leadership Program, Organized by Education Malaysia Chicago	Dec 20-22, 2013
• Seminar on submitting your dissertation, thesis, or report	January 23, 2014
• Exploring macro and portrait photography techniques	March 1, 2014
• Transportation infrastructural seminar by Dr. Changbin Hu	March 25, 2014
• Civil engineering graduate seminar	April 10, 2014
• D80 2014 Conference	October 11, 2014
• Professor Training Course at National Center for Asphalt Technology (NCAT)	June 15-19, 2015

### **HONORS AND AWARDS**

- Recipient of Finishing Fellowship from Michigan Technological University (Fall 2015)
- Recipient of SLAI/ Academic Staff Teaching Scheme (ASTS) (Jan 2012 – Feb 2016)
- Award for attending Professor Training Course at National Center for Asphalt Technology (NCAT), Summer 2015
- Recipient of the Graduate Student Government Travel Grant from Michigan Tech (May 2013- April 2014 session)
- Recipient of Sanggar Sanjung (Publication) Award from Universiti Sains Malaysia. 2012 and 2014
- Recipient of the Persada Kencana Award- Publication Category (2014)
- Silver Medal Award from the International Exhibition of Ideas, Invention and Innovations Trade Fair (IENA), Nuremberg, Germany, 2013
- Recipient of the Persada Kencana (Invention-Dynamic Asphalt Stripping Machine) Award 2013
- Best Thesis Award (Engineering Cluster), Universiti Sains Malaysia, 2011
- Excellent M.Sc Student Award from the School of Civil Engineering, Universiti Sains Malaysia, 2011
- Best Paper Award in the International Conference on Road and Airfield Pavement Technology (ICPT), August 2011
- Gold Medal Award from the 22<sup>nd</sup> International Invention, Innovation & Technology Exhibition, ITEX 2011, Kuala Lumpur, Malaysia, 20 -22 May 2011
- Recipient of the Best Thesis Award (Engineering Cluster) Persada Kencana Award (2011)

- Recipient of Graduate Student Award from the School of Civil Engineering, Universiti Sains Malaysia (M.Sc Category - 2011)
- Recipient of National Science Fellowship (NSF) from Ministry of Science, Technology and Innovation (MOSTI), 1 July 2008 – 30 Jun 2010
- 3<sup>rd</sup> Prize Best Paper Award in the 8<sup>th</sup> Malaysian Road Conference, October 2010
- Recipient of Best Student Award of Diploma in Civil Engineering (Construction), From Universiti Teknologi MARA - 2005
- Recipient of Vice Chancellor Award From Universiti Teknologi MARA - 2005