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Associate Professor in Highway Engineering

RESEARCH INTERESTS:

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

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EDUCATION:

<i>Michigan Technological University, Houghton, Michigan</i>	2012 – 2015
Ph.D. in Civil Engineering (Transportation Materials)	
Assessments of Low Emission Asphalt Mixtures Produced using Combinations of Foaming Agents	
<i>Michigan Technological University, Houghton, Michigan [While pursuing PhD]</i>	2012 – 2014
Master of Science in Civil Engineering (Transportation Materials)	
Performance Evaluation of LLDPE/CaCO ₃ Modifiers with and without Titanate Coupling Agent On Asphalt binder and Mixture	
<i>Universiti Sains Malaysia, Penang, Malaysia</i>	2008 – 2011
Master of Science in Civil Engineering (Asphalt Technology)	
Studies on Binder Creep, Abrasion Loss and Dynamic Stripping of Porous Asphalt	
<i>Universiti Teknologi MARA, Penang, Malaysia</i>	2005 – 2008
Bachelor of Engineering in Civil (Hons)	
<i>Universiti Teknologi MARA, Perlis, Malaysia</i>	2002 – 2005
Diploma in Civil Engineering (Construction)	

WORKING EXPERIENCE:

Post	Organization	Date
Research Assistant	Universiti Teknologi Mara, Malaysia	July 2007 – April 2008
Project Engineer	KELTRADE Sdn. Bhd., Malaysia	April 2008 – July 2008
Research Assistant/ Officer	Universiti Sains Malaysia, Malaysia	July 2010 – Sept 2011
Graduate Teaching Assistant/ Research Assistant	Michigan Technological University, USA	Jan 2012 – June 2015
Lecturer	Universiti Sains Malaysia, Malaysia	Dec 2015 – April 2021
Visiting Professor / Postdoc Fellow	Chang'an University, Xi'an, China	Jan 2018 – Dec 2019
Visiting Scientist / Int. Fellow	Taiyu Kensetsu Co. Ltd./ Matsumae International Foundation, Japan	July 2019 – Sept 2019
Associate Professor	Universiti Sains Malaysia, Malaysia	May 2021 – To Date

PUBLICATIONS:

Research Book/Chapter in Book/ Monograph

1. Hamidi Abdul Aziz, Badorul Hisham Abu Bakar, Megat Azmi Megat Johari, Choong Kok Keong, Mohd Suffian Yusoff, **Mohd Rosli Mohd Hasan**, Muhd Harris Ramli, Herni Halim (2017) Proceedings of the International Conference of Global Network for Innovative Technology and AWAM International Conference in Civil Engineering 2017, AIP Conference Proceedings, Vol 1892, Issue 1

2. **Mohd Rosli Bin Mohd Hasan**, Baron W. Colbert, Zhanping You, Xu Yang, Meor Othman Bin Hamzah, Qingli Dai, Hainian Wang, Aboelkasim Diab, 2018, A Review on Utilization of Electronic Waste Plastics for Use within Asphaltic Concrete Materials: Development, Opportunities, and Challenges for Successful Implementation, in (Encyclopedia of Renewable and Sustainable Materials), Elsevier Science
3. Ashiru Sani, **Mohd Rosli Mohd Hasan**, Khairul Anuar Shariff, Sharvin Poovaneshvaran, Ilham Ibrahim, 2020, Morphological Identification of Latex Modified Asphalt Binder Prepared with Surfactants, Proceedings of AICCE'19, Lecture Notes in Civil Engineering 53
4. Sharvin Poovaneshvaran, **Mohd Rosli Mohd Hasan**, Ashiru Sani and Raa Khimi Shuib, Alternative Testing Protocol to Assess the Bonding and Shear Resistance of Pavement Bituminous Crack-Sealant Material, Proceedings of AICCE'19, Lecture Notes in Civil Engineering 53

Journal Papers (Accepted and Published - Most papers started from 2016 till date, acting as the corresponding author)

1. Ashiru Sani, Khairul Anuar Shariff, **Mohd Rosli Bin Mohd Hasan**, Tomohiro Ando, Hiroki Imai (2021), Behavioural interface-bonding and chemical characterization of silane and wax based additives on latex modified asphalt binders, International Journal of Adhesion and Adhesives, 106, 102822
2. S Poovaneshvaran, LW Zheng, **MRM Hasan**, X Yang, A Diab, (2021) Workability, compactibility and engineering properties of rubber-modified asphalt mixtures prepared via wet process, International Journal of Pavement Research and Technology 14 (5), 560-569
3. N Mukhtar, **MRM Hasan**, MFHM Ghazali, ZM Zin, KA Shariff, A Sani (2021) Influence of concentration and packing of filler particles on the stiffening effect and shearing behaviour of asphalt mastic, Construction and Building Materials 295, 123660
4. Guo Tai, **Mohd Rosli Mohd Hasan**, Hainian Wang, Sharvin Poovaneshvaran, Ashiru Sani, Muhammad Khuzaimi Aziz (2021) Characteristics of Latex-Modified Bitumen Prepared via Foaming Technique Using Water and Diluted Methanol, Journal of Materials in Civil Engineering 33 (7)
5. Rokiah Othman, Beng Wei Chong, Ramadhansyah Putra Jaya, **Mohd Rosli Mohd Hasan**, Mohd Mustafa Al Bakri Abdullah, Mohd Haziman Wan Ibrahim (2021) Evaluation on the Rheological and Mechanical Properties of Concrete Incorporating Eggshell with Tire Powder, Journal of Materials Research and Technology
6. Ahmed Abdulameer Hussein, Ramadhansyah Putra Jaya, Haryati Yaacob, Norhidayah Abdul Hassan, Salam Ridha Olewi Aletba, Ghasan Fahim Huseien, Ekarizan Shaffie, **Mohd Rosli Mohd Hasan** (2021) Physical, chemical and morphology characterisation of nano ceramic powder as bitumen modification, International Journal of Pavement Engineering 22 (7) 858-871
7. Ashiru Sani, **Mohd Rosli Mohd Hasan**, Khairul Anuar Shariff, Ali Jamshidi, Sharvin Poovaneshvaran, Khairul Anuar Shahid (2021) Physico-Mechanical and Morphological Properties of Wax Latex-Modified Asphalt Binder, Iranian Journal of Science and Technology, Transactions of Civil Engineering 45, 865-878
8. Beng Wei Chong, Rokiah Othman, Ramadhansyah Putra Jaya, Xiaofeng Li, **Mohd Rosli Mohd Hasan**, Mohd Mustafa Al Bakri Abdullah (2021), Meta-analysis of studies on eggshell concrete using mixed regression and response surface methodology, Journal of King Saud University-Engineering Sciences
9. Beng Wei Chong, Rokiah Othman, Ramadhansyah Putra Jaya, **Mohd Rosli Mohd Hasan**, Andrei Victor Sandu, Marcin Nabisalek, Bartłomiej Jeż, Paweł Pietrusiewicz, Dariusz Kwiatkowski, Przemysław Postawa, Mohd Mustafa Al Bakri Abdullah (2021) Design of Experiment on Concrete Mechanical Properties Prediction: A Critical Review, Materials 14 (8)
10. Hainian Wang, Markus Oeser, Chonghui Wang, **Mohd Rosli Bin Mohd Hasan**, (2020), Investigation on the morphological and mineralogical properties of coarse aggregates under VSI crushing operation, International Journal of Pavement Engineering, DOI: 10.1080/10298436.2020.1714043
11. Hainian Wang, Ziyi Ma, Xi Chen, **Mohd Rosli Bin Mohd Hasan**, (2020), Preparation process of bio-oil and bio-asphalt, their performance, and the application of bio-asphalt: a comprehensive review, Journal of Traffic and Transportation Engineering (English Edition), 7, 137-151

12. Ashiru Sani, **Mohd Rosli Mohd Hasan**, Khairul Anuar Shariff, Ali Jamshidi, Sharvin Poovaneshvaran & Khairul Anuar Shahid (2020), Physico-Mechanical and Morphological Properties of Wax Latex-Modified Asphalt Binder, Iranian Journal of Science and Technology, Transactions of Civil Engineering, DOI 10.1007/s40996-020-00422-9
13. Xu Yang, Zhanping You, Jacob E. Hiller, **Mohd Rosli Mohd Hasan**, Aboelkasim Diab, Sang Luo, (2020), Sensitivity of Rigid Pavement Performance Predictions to Individual Climate Variables using Pavement ME Design, Journal of Transportation Engineering, Part B: Pavements, 146(3): 04020028
14. Liyana Ahmad Sofri, Mohd Mustafa Al Bakri Abdullah, **Mohd Rosli Bin Mohd Hasan**, Yue Huang (2020), The Influence of Sodium Hydroxide Concentration on Physical Properties and Strength Development of High Calcium Fly Ash Based Geopolymer as Pavement Base Materials, IOP Conf. Series: Materials Science and Engineering, 864, 012016
15. Uwanuakwa ID, Ali SIA, **Hasan MRM**, Akpinar P, Sani A, Shariff KA. (2020), Artificial Intelligence Prediction of Rutting and Fatigue Parameters in Modified Asphalt Binders, Applied Sciences, 10(21):7764. <https://doi.org/10.3390/app10217764>
16. Sharvin Poovaneshvaran, Lim Wee Zheng, **Mohd Rosli Mohd Hasan**, Xu Yang & Aboelkasim Diab, (2020), Workability, Compactibility and Engineering Properties of Rubber-Modified Asphalt Mixtures Prepared Via Wet Process, International Journal of Pavement Research and Technology, 14, 560-569
17. Muhammad Khuzaimi Aziz, **Mohd Rosli Mohd Hasan**, Sharvin Poovaneshvaran, Guo Tai, Hainian Wang, (2020), Application of diluted methanol to allow the production of latex modified asphalt mixture with lower energy consumption, Construction and Building Materials, 262, 120028
18. Chew J.-Wei, Sharvin Poovaneshvaran, **Mohd Rosli Mohd Hasan**, Meor Othman Hamzah, Jan Valentin, Ashiru Sani, (2020), Microscopic analysis and mechanical properties of Recycled Paper Mill Sludge modified asphalt mixture using granite and limestone aggregates, Construction and Building Materials, 243, 118172
19. P. Feng, H. Wang, X. Zhang, **M. Hasan**, Z. You, and J. Gao, (2020), Study on Workability and Skid Resistance of Bio-Oil-Modified Fog Seal with Sand, Journal of Testing and Evaluation, Volume 48, Issue 3, ASTM International
20. Sharvin Poovaneshvaran, **Mohd Rosli Mohd Hasan**, Ramadhansyah Putra Jaya, (2020), Impacts of recycled crumb rubber powder and natural rubber latex on the modified asphalt rheological behaviour, bonding, and resistance to shear, Construction and Building Materials, 234, 117357
21. J.-Wei Chew, Sharvin Poovaneshvaran, **Mohd Rosli Mohd Hasan**, Hainan Wang, Ashiru Sani, Babak Bolchin, (2020), Serviceability during asphaltic concrete production and leaching concerns of asphalt mixture prepared with recycled paper mill sludge, International Journal of Pavement Engineering, DOI: 10.1080/10298436.2020.1736291
22. Meor Othman Bin Hamzah, Sharvin Poovaneshvaran, Ashiru Sani, **Mohd Rosli Bin Mohd Hasan**, (2020), Effect of temperatures and loading rates on direct shear strength of asphaltic concrete using layer-parallel direct shear test, IOP Conference Series: Materials Science and Engineering, 712, 012047
23. Xudong Hu, Sheng Li, Hui Yao, Hui Wang, Mei Xu, Dandan Cao, Mohd Rosli Mohd Hasan, Cong Duan, Ran Zhang, (2020), Gradation Design and Performance Evaluation of High Viscosity Asphalt Mixtures, Advances in Civil Engineering, Hindawi, Volume 2020, Article ID 4951951
24. Seyed Reza Omranian, Meor Othman Hamzah, **Mohd Rosli Mohd Hasan** (2019), Introducing New Indicators to Evaluate Fracture Properties of Asphalt Mixtures Using Semicircular Bending Test, Iranian Journal of Science and Technology, Transactions of Civil Engineering Volume 43, Issue 3, pp. 541-549, Springer
25. Ahmed Abdulameer Hussein, Ramadhansyah Putra Jaya, Haryati Yaacob, Norhidayah Abdul Hassan, Salam Ridha Oleiwi Aletba, Ghasan Fahim Huseien, Ekarizan Shaffie, **Mohd Rosli Mohd Hasan** (2019), Physical, chemical and morphology characterisation of nano ceramic powder as bitumen modification, International Journal of Pavement Engineering, August 2019, pp. 1-14, Taylor & Francis

26. Xiang Zhang, Hainian Wang, **Mohd Rosli Mohd Hasan**, Junfeng Gao, Muhammad Irfan (2019), Traffic open time prediction of fog seal with sand using image processing technology, *Journal of Construction and Building Materials*, Volume 209, Pp. 9-19, Elsevier
27. Ashiru Sani, **Mohd Rosli Mohd Hasan**, Khairul Anuar Shariff, Ali Jamshidi, Ali Huddin Ibrahim, Sharvin Poovaneshvaran (2019), Engineering and microscopic characteristics of natural rubber latex modified binders incorporating silane additive, *International Journal of Pavement Engineering*, pp. 1-10, Taylor & Francis
28. **Mohd Rosli Bin Mohd Hasan**, Zhanping You (2019), Assessments of Potential Service Characteristics of Ethanol and Ethanol-NaCHO₃ Foamed WMA Mixtures, *Journal of Materials in Civil Engineering*, 31(6): 04019079
29. **Mohd Rosli Mohd Hasan**, J-Wei Chew, Ali Jamshidi, Xu Yang, Meor Othman Hamzah (2019) Review of Sustainability, Pretreatment, and Engineering Considerations of Asphalt Modifiers from the Industrial Solid Wastes, *Journal of Traffic and Transportation Engineering (English Edition)* Volume 6, Issue 3, pp. 209-244
30. **Mohd Rosli Mohd Hasan**, Zhanping You (2019) Comparative Study of Ethanol Foamed Asphalt Binders and Mixtures Prepared Via Manual Injection and Laboratory Foaming Device, *Journal of Traffic and Transportation Engineering (English Edition)* Volume 6, Issue 4, pp. 383-395
31. **Mohd Hasan Mohd Rosli**; Zhanping You; Hamzah Meor Othman; Huiming Yin; Siyu Chen; Fangyuan Gong (2019), Assessments of Potential Service Characteristics of Ethanol and Ethanol-NaHCO₃ Foamed WMA Mixtures, *Journal of Materials in Civil Engineering*, ASCE, Volume 31, Issue 6
32. **Mohd Rosli Mohd Hasan**, Zhanping You, Huiming Yin, Lingyun You, Ran Zhang (2019) Characterizations of Foamed Asphalt Binders Prepared Using Combinations of Physical and Chemical Foaming Agents, *Construction & Building Materials* Volume 204, pp. 99-104
33. Ponan Feng, H Wng, Xiang Zhang, **Mohd Rosli Mohd Hasan**, Zhanping You, Junfeng Gao (2019), Study on workability and skid resistance of bio-oil-modified fog seal with sand, *Journal of Testing and Evaluation* 2019, ASTM
34. **Mohd Rosli Mohd Hasan**, Zhanping You, Lingyun You, Ran Zhang (2018), Performance of ethanol and ethanol-NaHCO₃ based foamed WMA mixtures for low emission asphalt technology, *Construction and Building Materials* 192, pp. 9-19, Elsevier
35. Seyed Reza Omranian, Meor Othman Bin Hamzah, **Mohd Rosli Bin Mohd Hasan**, Noor Halizah Binti Abdullah (2019), Evaluation of Asphalt Mixtures Performance Produced via Drum and Batch Mixing Plants, *Journal of Engineering Science and Technology*, Vol. 14, No. 5, p.p 2761 – 2778
36. **Mohd Rosli Bin Mohd Hasan**, Zhanping You, 2019, Rheological and MECHANICAL Performance of Asphalt Binders and Mixtures Incorporating CaCO₃ and LLDPE, *Organic Polymer Material Research*, Vol. 1, Issue 1, p.p 10-21
37. Seyed Reza Omranian, Meor Othman Hamzah, Teh Sek Yee, **Mohd Rosli Mohd Hasan** (2018) Effects of short-term ageing scenarios on asphalt mixtures' fracture properties using imaging technique and response surface method, *International Journal of Pavement Engineering*, pp. 1-19, Taylor & Francis
38. S. R. Omranian, Meor Othman Bin Hamzah, **Mohd Rosli Bin Mohd Hasan**, 2018, Effects of Short-Term Aging Scenarios on Asphalt Mixtures Fracture Properties Using Imaging Technique and Response Surface Method, *IJPE*
39. **Mohd Rosli Mohd Hasan**, Zhanping You, Mohd Khairul Idham Mohd Satar, Muhammad Naquiuddin Mohd Warid, Nurul Hidayah Mohd Kamaruddin, Dongdong Ge, Ran Zhang (2018) Effects of Titanate Coupling Agent on Engineering Properties of Asphalt Binders and Mixtures Incorporating LLDPE-CaCO₃ Pellet *Applied Sciences* 8 (7), page 1029
40. SR Omranian, MO Hamzah, J Valentin, **MRM Hasan** (2018) Determination of optimal mix from the standpoint of short term aging based on asphalt mixture fracture properties using response surface method, *Construction and Building Materials* 179, pp. 35-48
41. J Gao, H Wang, Y Bu, Z You, **MRM Hasan**, M Irfan (2018) Effects of coarse aggregate angularity on the microstructure of asphalt mixture, *Construction and Building Materials* 183, 472-484

42. J Gao, H Wang, Z You, **Mohd Hasan M R**, Y Lei, M Irfan, (2018) Rheological Behavior and Sensitivity of Wood-Derived Bio-Oil Modified Asphalt Binders. *Applied Sciences* (2076-3417) 8 (6)
43. Xu Yang, Zhanping You, Aboelkasim Diab, **Mohd Rosli Mohd Hasan**, (2018) Aggregate Morphology and Internal Structure for Asphalt Concrete: A Pre-step of Computer-Generated Microstructural Models, *International Journal of Geomechanics*, 18 (10),
44. **Mohd Rosli Mohd Hasan**, Baron W. Colbert, Zhanping You, Xu Yang, Meor Othman, Hamzah, Qingli Dai, Hainian Wang, Aboelkasim Diab (2018) A Review on Utilization of Electronic Waste Plastics for Use within Asphaltic Concrete Materials: Development, Opportunities, and Challenges for Successful Implementation, *Encyclopedia of Renewable and Sustainable Materials*, Elsevier
45. Ali Jamshidi, **Mohd Rosli Mohd Hasan**, Lee Mei Ting (2018), Comparative Study on Engineering Properties and Energy Efficiency of Asphalt Mixes Incorporating Fly Ash and Cement, *Journal of Construction & Building Materials* Volume 168, 20 April 2018, Pages 295-304
46. Babak Golchin, Meor Othman Bin Hamzah, Seyed Reza Omranian, **Mohd Rosli Bin Mohd Hasan** (2018), Effect of a Surfactant-Wax Based Warm Additive on High Temperature Rheological Properties of Asphalt Binders, *Construction & Building Materials* 183, pp. 395-407
47. Lillian Gungat, Meor Othman Hamzah, **Mohd Rosli Mohd Hasan**, Jan Valentin (2018) Warm Mix and Reclaimed Asphalt Pavement: A Greener Road Approach, *International Journal of Civil and Environmental Engineering*, Vol:12, No:8
48. Noor Halizah Abdullah, Meor Othman Hamzah, Babak Golchin, **Mohd Rosli Mohd Hasan** (2018), An alternative protocol to artificially simulate short-term ageing of binders for selected regional condition, *Journal of Construction and Building Materials* 161, pp 654-664
49. J Gao, H Wang, Z You, **MRM Hasan** (2018) Research on properties of bio-asphalt binders based on time and frequency sweep test, *Construction and Building Materials* 160, pp. 786-793
50. Xu Yang, Zhanping You, **Mohd Rosli Bin Mohd Hasan** (2018), Aggregate Morphology and Internal Structure for Asphalt Concrete: Prestep of computer-Generated Microstructural Models, *International Journal of Geomechanics*, 18(10): 06018024
51. Babak Golchin, Meor Othman Bin Hamzah, **M R Mohd Hasan** (2017), Optimization in Producing warm mix asphalt with polymer modified binder and surfactant –wax additive, *Journal of Construction and Building Materials* 141, pp 578-588
52. Aboelkassim Diab, Zhanping You, Xu Yang, **Mohd Rosli Mohd Hasan** (2017), Towards an Alternate Evaluation of Moisture-induced Damage of Bituminous Materials, *Applied Sciences (Special Issue- Advanced Asphalt Materials and Paving Technology)*, Volume 7, Issue 10, p. 1049
53. **Mohd Rosli Mohd Hasan**, Zhanping You, Xu Yang (2017), A comprehensive review of theory, development, and implementation of warm mix asphalt using foaming techniques, *Journal of Construction and Building Materials* 152, pp 115-133
54. **Mohd Rosli Mohd Hasan**, Zhanping You, Xu Yang, Patricia A. Heiden (2017), Quantification of Physicochemical Properties and Advanced Performance of Foamed Asphalt Binders, *Journal of Construction and Building Materials* 153, pp. 557-568
55. Xu Yang, Zhanping You, Huijun Shao, **Mohd Rosli Mohd Hasan**, Siyu Chen, Dongdong Ge, (2017) Environmental and Mechanical Performance of Crumb Rubber Modified Warm Mix Asphalt using Evotherm, *Journal of cleaner production* 159, pp 346-358
56. **Mohd Rosli Mohd Hasan**, Meor Othman Hamzah, Martin van de Ven, Jan Voskuilen, (2016) Disruption of Air Voids Continuity Based on Permeability Loss due to Mortar Creep, *Journal of Construction and Building Materials* 116, pp. 347–354
57. **Mohd Rosli Mohd Hasan**, Baron Colbert, Zhanping You, Ali Jamshidi, Patricia A Heiden, Meor Othman Hamzah, (2016) A Simple Treatment to Electronic-Waste Plastics to Produce Asphalt Binder Additives with Improved Properties, *Journal of Construction and Building Materials* 110, 79–88
58. Baron Colbert, **Mohd Rosli Mohd Hasan**, Zhanping You, (2016) A Hybrid Strategy to Optimize Innovative Sustainable Materials for Asphalt Mixtures using Graphical Modeling and Emissions during Production, *Journal of Traffic and Transportation Engineering* 3(2), pp. 89–103

59. **Mohd Rosli Mohd Hasan**, Zhanping You (2016) Ethanol Based Foamed Asphalt as Potential Alternative for Low Emission Asphalt Technology, *Journal of Traffic and Transportation Engineering* 3(2), pp. 116–126
60. **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* 101 (Part 1), pp. 57–64
61. 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
62. 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.
63. **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*, pp. 1117-1124.
64. **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*, pp. 1-12.
65. **Mohd Rosli Mohd Hasan**, David Porter and Zhanping You, (2015) Synthesis of Longitudinal Joint of Flexible Pavement, *Jurnal Teknologi* 73 (4), p 7-14
66. 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
67. **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.
68. 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*
69. **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.
70. 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.
71. 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
72. 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.
73. 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.
74. 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
75. 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
76. 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.
77. 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 (Accepted and Published - Most papers started from 2016 till date, acting as the corresponding author)

1. Hiroki Imai, **Mohd Rosli Mohd Hasan**, Nguyen Quang Phuc, Hiromitsu Nakanishi, Akihiro Kato and Tomohiro Ando, (2020) Study on Wash-out of Asphalt Mixture Caused by Repeated Heating and Cooling Immersion Test Proceedings of the 3rd International Conference on Sustainability in Civil Engineering, ICSCCE 2020, 26-27 November, Hanoi, Vietnam
2. Liyana Ahmad Sofri, Mohd Mustafa Al Bakri Abdullah, **Mohd Rosli Mohd Hasan**, Yue Huang, Muhammad Faheem Mohd Tahir, Acep Hidayat, and Syafwandi (2020), Unconfined compressive strength of various types of pavement base material: A review, AIP Conference Proceeding, Volume 2291, 020042, AIP Publishing
3. Muhammad Faheem Mohd Tahir, Mohd Mustafa Al Bakri Abdullah, **Mohd Rosli Mohd Hasan**, Warid Wazien Ahmad Zailani (2019), Optimization of fly ash based geopolymer mix design for rigid pavement application, AIP Conference Proceedings, Volume 2129, Issue 1, AIP Publishing
4. Hainian Wang, Xiang Zhang, **Mohd Rosli Mohd Hasan**, Zhanping You (2019) Traffic Open Time Prediction of Fog Seal with Sand Using Image Pro Plus Technology, The Transportation Research Board (TRB) 98th Annual Meeting will be held January 13–17, 2019, in Washington, D.C - submitted
5. Ponan Feng, Hainian Wang, **Mohd Rosli Mohd Hasan** (2019), Effects of Aggregate Mesostructure and Mineral Composition on Interfacial Behavior between Asphalt Binder and Aggregate, The Transportation Research Board (TRB) 98th Annual Meeting, January 13–17, 2019, in Washington, D.C
6. Hainian Wang, **Mohd Rosli Bin Mohd Hasan** (2018), Laboratory Optimization of rapid pyrolysis bio-oil with two alcohols, Proceedings of the inaugural World Transport Convention Beijing, China, June 4-6 2017
7. Meor Othman Hamzah, Hiromitsu Nakanishi, **Mohd Rosli Mohd Hasan**, and Ong Sheng Haur, (2018) Mix Design and Application of Porous Asphalt Pavement Using Japanese Technology, 10th Malaysian Road Conference "Global Approaches to Advance Road Asset Management" - Sunway Pyramid Convention Centre, 29 - 31 October 2018
8. Meor Othman Hamzah, Noor Halizah Abdullah, **Mohd Rosli Mohd Hasan** (2018) An Alternative Protocol to Laboratory Short-Term Ageing of Bitumen, The World Research & Innovation Convention on Engineering & Technology (WRICET2018), Kota Kinabalu, Sabah, Malaysia from October 20th – 24th, 2018
9. **Mohd Rosli Mohd Hasan**, Pavanithan Nathan, Khairul Anuar Shariff, J-Wei Chew, Ashiru Sani, and Ali Huddin Ibrahim (2018) Service Characteristics, Moisture-Related Performance Asphalt Mixture Incorporating Silane Additive Zycotherm Prepared Using Granite And Limestone, Regional Conference in Civil Engineering (RCCE) on 5-6 September 2018, at Royal Ambarukmo Hotel, Yogyakarta
10. Liyana Ahmad Sofri, Mohd Mustafa Al Bakri Abdullah, **Mohd Rosli Mohd Hasan**, and Yue Huang, (2018) Effect of NaOH Concentration and Fly Ash/Alkaline Activator Ratio on the Compressive Strength of Road Base material, 6th International Conference on Advanced Material Engineering & Technology, will be held on 29th - 30th April 2018 at Ho Chi Minh, Vietnam
11. Lee Mei Ting, **Mohd Rosli Mohd Hasan**, Ali Jamshidi, Hainian Wang, (2018) Assessments on Asphalt Mixtures Incorporating Fly Ash as an Alternative Filler Material, Proceedings of the inaugural World Transport Convention Beijing, China, June 18-21, 2018
12. Hainian Wang, Xi Chen, Zonghao xuan Wei, Qinghua Wang, **Mohd Rosli Mohd Hasan**, (2018) Laboratory Optimization of rapid pyrolysis bio-oil with two alcohols, Proceedings of the inaugural World Transport Convention Beijing, China, June 18-21, 2018
13. Kabiru Abdullahi Ahmad, Mohd Ezree Abdullah, **Mohd Rosli Mohd Hasan**, Norhidayah Abdul Hassan, Nura Usman, Munder A. M. Bilema, saeed modibbo saeed, Ahmad Batari, kamarudin Ambak, (2017) Effect of Bio based rejuvenator on mix design, Energy consumption and GHG Emission of High RAP Mixture, 4th International Conference on Civil and Environmental Engineering for Sustainability, 4 - 5 December 2017, Langkawi, Malaysia
14. **Mohd Rosli Mohd Hassan**, Meor Othman Hamzah, Rosmawati Abdul Razak (2017), Effects of Compaction Delay on The Performance of Porous Asphalt Mixture Compacted At Diferrent Thickness, The 3rd

International Conference on Green Design and Manufacture, 29-30 April 2017, Krabi, Thailand - AIP conference proceeding 1885

15. **Mohd Rosli Mohd Hasan**, Meor Othman Hamzah, Teh Sek Yee (2017), Performance Characterizations of Asphalt Binders and Mixtures Incorporating Silane Additive ZycoTherm, IGNITE and AWAM international Conference of Civil Engineering, Penang (International), 8 to 10th August 2017 – AIP conference proceeding 1892
16. Meor Othman Hamzah, Bashir Aburawi, Sek Yee Teh, **Mohd Rosli Mohd Hasan** (2016) Investigation of Warm Mix Asphalt Incorporating Moist Aggregates, 10th International Conference on the Bearing Capacity of Roads, Railways and Airfields (BCRRA 2017), 28th to 30th June 2017, Athens, Greece
17. Meor Othman Hamzah, Ng Tee Yian, **Mohd Rosli Mohd Hasan**, (2016) Volumetric Properties and Moisture Sensitivity of Asphalt Mixes Incorporating Recycled Asphalt Pavement, 3rd International Congress on Advanced Materials (AM 2016), 27-30 November 2016, Bangkok, Thailand
18. Meor Othman Hamzah, Bashir Aburawi, **Mohd Rosli Mohd Hasan**, Ali Jamshidi (2016) Effects of Wax Additive and Aging State on the Physical and Rheological Properties of Asphalt Binder, International Students' Scientific Conference, Trends and Innovations in Transport Infrastructure 2016, June 20th, Faculty of Civil Engineering CTU in Prague, Czech Republic
19. Meor Othman Hamzah, Teh Sek Yee, **Mohd Rosli Mohd Hasan**, (2016) Evaluating the Long-term Performance of Warm Mix Asphalt using Advanced 3-D Imaging Technique and Indirect Tensile Test, 2nd IRF Asia Regional Congress & Exhibition, October 16-20, 2016 – Kuala Lumpur, Malaysia
20. Meor Othman Hamzah, Mohamad Fazil Jamaluddin, **Mohd Rosli Mohd Hasan** (2016), Effects of Mixture Aging on the Performance of Gap Graded Asphalt Mix Experimented on the Malaysian North-South Expressway, International Conference on Transportation Infrastructure and Materials (ICTIM) 2016, July 16-18, 2016, Xi'an, China
21. Muhammad Rafiq Kakar, Meor Othman Hamzah, **Mohd Rosli Mohd Hasan**, Jan Valentin (2016) Asphalt Binder Rheological Properties and Compactability of Asphalt Mixtures Incorporating Surfactant-Based Warm Mix Additive, 27th ARRB Conference, Melbourne Australia, November 16-18, 2016
22. Meor Othman Hamzah, Nakanishi Hiromitsu, and **Mohd Rosli Mohd Hasan**, (2016) Proposed Japanese Mix Design Methodology for Porous Asphalt using Modified Binder, 8th International Conference on Maintenance and Rehabilitation of Pavements (MAIREPAV8), Singapore, 27 to 29 July 2016.
23. **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
24. **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
25. **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
26. **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
27. **Mohd Rosli Mohd Hasan** and Zhanping You, (2013) A Synthesis: Longitudinal Joint Of Asphalt Pavement, 9th International Conference of Geotechnical and Transportation Engineering (Geotropika) and 1st International Conference on Construction and Building Engineering (Iconbuild) - Geocon2013, 28th To 30th October 2013, Johor Bahru, Johor, Malaysia
28. 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
29. 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

30. 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
31. 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.
32. M. O. Hamzah, **M. R. Mohd Hasan**, G. Van Bochove (2012) Rational Control Parameters for Determination of Design Binder Content Of Porous Asphalt, 5th Eurasphalt And Eurobitume Congress 2012, 13-15 June, Istanbul, Turkey
33. 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
34. **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.
35. **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)
36. 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®, 7th International Conference on Road and Airfield Pavement Technology (ICPT 2011), New Horizon of Pavement Technology, Bangkok, Thailand (August 2011)
37. 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.
38. M. O. Hamzah, Z. Shahadan, **M. R. Mohd Hasan** and A. Jamshidi (2010) Sustainable Asphalt – The Way Forward For the Malaysian Asphalt Industry, 8th Malaysian Road Conference (MRC 2010), Kuala Lumpur (October 2010)
39. 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:

1. **Mohd Rosli Mohd Hasan**, Lee Mei Ting, Ali Jamshidi, Hainian Wang, (2018) Assessments on Asphalt Mixtures Incorporating Fly Ash as an Alternative Filler Material, Proceedings of the inaugural World Transport Convention Beijing, China, June 18-21, 2018
2. **Mohd Rosli Mohd Hasan**, Zhanping You, Chew J-Wei (2017) Ethanol as Substitute Foaming Agent for Low Emission Asphalt Mixture Production, 4th Universiti Sains Malaysia-Universite de Lorraine (USM-UL) Colloquium, 17 to 19th January, 2017
3. **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.
4. **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
5. 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*, 93rd Annual Meeting, January 12-16, 2014, Washington D.C.
6. 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 19th and 20th 2014.

7. **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.

SELECTED REPORTS:

1. **Mohd Rosli Mohd Hasan**, Zul Fahmi Mohamed Jaafar (2020), Proposed Full Integration of Airport Pavement Management System (APMS) For Langkawi International Airport, Malaysia, 20 July 2020
2. **Mohd Rosli Mohd Hasan**, Zul Fahmi Mohamed Jaafar (2020), Field Assessments and Potential Pavement Maintenance Approaches For Runway And Taxiway At Langkawi International Airport, Malaysia, 15 October 2020
3. **Mohd Rosli Mohd Hasan**, Zul Fahmi Mohamed Jaafar (2020), FAARFIELD Analysis of Pavement Structural Layers for Runway (CH. 900 - CH. 1710) and Taxiway B Maintenance Works, Langkawi International Airport, Malaysia, 1 December 2020
4. Nakanishi Hiromitsu, Meor Othman Hamzah, **Mohd Rosli Mohd Hasan**, (2017), 3rd Plant Trial of Porous Asphalt for North-South Expressway in Malaysia
5. Ahmad Farhan Mohd Sadullah, Farid Ezanee Mohamed Ghazali, **Mohd Rosli Mohd Hasan** (2017), FINAL REPORT: Sustainable Infrastructure Rating Tool: Analysis on CEEQUAL UK-Based Framework for Malaysian Context, 15 August 2017
6. Meor Othman Hamzah, **Mohd Rosli Mohd Hasan** (2017), Final Report: Properties of asphalt binders and mixtures incorporating Zycotherm, Submitted to Zydex Industries (India) and Kamunting Premix Plant Sdn Bhd
7. Nakanishi Hiromitsu, Meor Othman Hamzah, **Mohd Rosli Mohd Hasan**, (2017) Phase-2 Plant test mixing, Test pavement for porous asphalt on North-South Expressway in Malaysia, submitted to PLUS Malaysia Berhad.
8. Nakanishi Hiromitsu, Meor Othman Hamzah, **Mohd Rosli Mohd Hasan**, Ong Sheng Haur, Kamaluddin Jamari, (2017) 2nd Field Trial for TPS Porous Asphalt on Slow Lane and Emergency Lane of South Bound North-South Expressway in MALAYSIA
9. Nakanishi Hiromitsu, Meor Othman Hamzah, **Mohd Rosli Mohd Hasan**, (2017) Evaluation of Test results for Porous Asphalt Mixture Produced from 1st and 2nd Plant Trial at KPP Asphalt Mixing Plant
10. Farid Ezanee Bin Mohamed Ghazali, **Mohd Rosli Bin Mohd Hasan** (2017), Sustainable Infrastructure Rating Tool: Analysis on CEEQUAL UK-Based Framework for Malaysian Context
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13. **Mohd Rosli Bin Mohd Hasan**, Meor Othman Bin Hamzah (2017), Properties of Aggregates and Mix Design of Asphaltic Concrete Wearing and Binder Courses Using Limestone and Granite.
14. Nakanishi Hiromitsu, Meor Othman Hamzah, **Mohd Rosli Mohd Hasan**, Ong Sheng Haur, Kamaluddin Jamari, (2017), 1st Field Trial for Porous Asphalt on North-South Expressway in MALAYSIA
15. Farid Ezanee Bin Mohamed Ghazali, **Mohd Rosli Bin Mohd Hasan** (2017), Full Report: Site Visit to CEEQUAL Awarded Projects in The United Kingdom
16. Nakanishi Hiromitsu, Meor Othman Hamzah, **Mohd Rosli Mohd Hasan**, (2017) Phase-3 Test Pavement and Monitoring: Test Pavement for Porous Asphalt on North-South Expressway in Malaysia
17. **Mohd Rosli Bin Mohd Hasan**, Farid Ezanee Bin Mohamed Ghazali (2017), PROGRESS REPORT: Site visits and CEEQUAL verification- Phase 3 (DUKE 3) & West-Coast Expressway (WCE)
18. Nakanishi Hiromitsu, Meor Othman Hamzah, **Mohd Rosli Mohd Hasan**, (2016) Phase-1 Mix Design of Japanese TPS Porous Asphalt, Test Pavement for Porous Asphalt on North-South Expressway in MALAYSIA

19. Nakanishi Hiromitsu, Meor Othman Hamzah, **Mohd Rosli Mohd Hasan**, (2016) Additional Evaluation of Anti-Stripping Countermeasure to TPS Porous Asphalt Mixture in Malaysian Roads,
20. Meor Othman Hamzah, **Mohd Rosli Mohd Hasan** (2016), Properties of Asphalt Binders and Warm Mix Asphalt Mixtures Incorporating ZycoYherm, Draft Report to Kamunting Premix Plant Sdn. Bhd.
21. 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
22. 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
23. 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.
24. 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
25. Zhanping You, Julia King, **Mohd Rosli Mohd Hasan** Performance Evaluation of LLDPE/CaCO₃ modifiers with and without Titanate Coupling Agent on Asphalt Binder and mixture (summer 2013 - Spring 2014).
26. Evaluation of Modified Binder PG-76 and Cariphalte FS Properties, (2010) Sponsor: Shell Ltd. (Singapore).
27. Evaluation of Aggregate Properties for Section 3, North-South Expressway in Malaysia (2010), Sponsor: KUAD Sdn. Bhd., Penang, Malaysia

VIDEOS/ MASS MEDIA

1. **Mohd Rosli Mohd Hasan**, Zul Fahmie Mohamed Jaafar, Mohd Fouzi Ali, Zulhairi Arifin, Shamsul Ishak (2020), Pavement Skid Resistance Test, <https://www.youtube.com/watch?v=SKVAGzCrwsU>
2. **Mohd Rosli Mohd Hasan** (2020), EAL 339 Session 2: Porous Asphalt, <https://www.youtube.com/watch?v=-uWNkWWGKXY>
3. Dillon Dipagk, Vincent Choong, Mohd Fahmi Haikal Mohd Ghazali, Sharvin Poovaneshvaran, **Mohd Rosli Mohd Hasan**, Anasyida Abu Seman, 2020, Quick Crack Healing of Crumb Rubber Modified Asphalt Pavement via Induction Heating System, <https://www.youtube.com/watch?v=yNlrhwQoGhM>
4. **Mohd Rosli Mohd Hasan**, (2020), 5 minutes Pavement Talk, https://www.youtube.com/watch?v=-pU5D_E1ms8
5. **Mohd Rosli Mohd Hasan**, Zul Fahmie Mohamed Jaafar, Mohd Fouzi Ali, Zulhairi Arifin, Shamsul Ishak, 2020, Aggregate Los Angeles Abrasion Value Test, <https://www.youtube.com/watch?v=bQYR13szdko>
6. **Mohd Rosli Mohd Hasan**, Zul Fahmie Mohamed Jaafar, Mohd Fouzi Ali, Zulhairi Arifin, Shamsul Ishak, 2020, Asphalt Binder Flash Point Test, <https://www.youtube.com/watch?v=zHld-yinnJdM>
7. **Mohd Rosli Mohd Hasan**, Zul Fahmie Mohamed Jaafar, Mohd Fouzi Ali, Zulhairi Arifin, Shamsul Ishak, 2020, Asphalt Binder Softening Point, <https://www.youtube.com/watch?v=mD-5wYpiGRs>
8. **Mohd Rosli Mohd Hasan**, Zul Fahmie Mohamed Jaafar, Mohd Fouzi Ali, Zulhairi Arifin, Shamsul Ishak, 2020, Marshall Sample Preparation, https://www.youtube.com/watch?v=g_dT53z8swg
9. **Mohd Rosli Mohd Hasan**, Zul Fahmie Mohamed Jaafar, Mohd Fouzi Ali, Zulhairi Arifin, Shamsul Ishak, 2020, Asphalt Binder Penetration Test, <https://www.youtube.com/watch?v=UMef9cxLrBg>
10. **Mohd Rosli Mohd Hasan**, Meor Othman Hamzah, Mohd Fouzi Ali, Zulhairi Arifin, 2020, Dynamic Asphalt Stripping Machine (DASM), <https://www.youtube.com/watch?v=ENPKHYygzUs>

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1. Ahmad Farhan Mohd Sadullah, Farid Ezanee Mohamed Ghazali, **Mohd Rosli Mohd Hasan**, LY2018000728, CR-1 (NOTIFICATION OF WORKS), Malaysian Sustainable Infrastructure Rating Tool Draft, 15/02/2018, LITERARY
2. Fadzli Mohamed Nazri, Farah Hamid, Farid Ezanee Mohamed Ghazali, Fatehah Mohd Omar, Herni Halim, Lau Tze Liang, Mastura Azmi, Megat Azmi Megat Johari, Mohamad Fared Murshed, Mohd Ashraf Mohamad Ismail, **Mohd Rosli Mohd Hasan**, Mohd Suffian Yusoff, Muhd Harris Ramli, Mustafasanie M Yussof, Nik Azimatolakma Awang, Noorhazlinda Abd Rahman, Norazura Muhammad Bunnori, Nuridah Sabtu, Nurul Hana Mokhtar Kamal, Nurul Masfirah Abd Rahim, Shahrudin Shah Zaini, Sharifah Akmam Syed Zakaria, Siti Zaharah Jemaron, Taksiah A. Majid, Self-Assessment Report (SAR 2018), LY2019000872, 07/03/2019
3. **Mohd Rosli Mohd Hasan**, Babak Golchin, Meor Othman Hamzah, Muhammad Rafiq Khan Kakar, Accelerated Laboratory Vacuum Saturator (ALVS), LY2019007711, 25/11/2019
4. **Mohd Rosli Mohd Hasan**, Sharvin M Poovaneshvaran, Detachable Asphalt Mastic Mould, LY2019007715, 25/11/2019
5. **Mohd Rosli Mohd Hasan**, Meor Othman Hamzah, Mohd Fouzi Ali, Zulhairi Arifin, Dynamic Asphalt Stripping Machine (DASM), LY2019007717, 25/11/2019
6. **Mohd Rosli Mohd Hasan**, Mohd Fouzi Ali, Sharvin M Poovaneshvaran, Zulhairi Arifin, Bonding Test Jig for Asphalt Sealant, LY2019007713, 25/11/2019
7. **Mohd Rosli Mohd Hasan**, Mohd Fouzi Ali, Shamsul Ishak, Zul Fahmi Mohamed Jaafar, Zulhairi Arifin, Video of Asphalt Binder Softening Point Test Procedure - Ring & Ball Method, FM2020003348, 26/08/2020
8. **Mohd Rosli Mohd Hasan**, Mohd Fouzi Ali, Shamsul Ishak, Zul Fahmi Mohamed Jaafar, Zulhairi Arifin, Video of Asphalt Binder Penetration Test Procedure, FM2020003353, 26/08/2020
9. **Mohd Rosli Mohd Hasan**, Mohd Fouzi Ali, Shamsul Ishak, Zul Fahmi Mohamed Jaafar, Zulhairi Arifin, Video of Asphalt Binder Flash Point Test Procedure, FM2020003350, 26/08/2020
10. **Mohd Rosli Mohd Hasan**, Mohd Fouzi Ali, Shamsul Ishak, Zul Fahmi Mohamed Jaafar, Zulhairi Arifin, Video of California Bearing Ration (CBR) Test Procedure, FM2020003342, 26/08/2020
11. **Mohd Rosli Mohd Hasan**, Mohd Fouzi Ali, Shamsul Ishak, Zul Fahmi Mohamed Jaafar, Zulhairi Arifin, Video of Sample Preparation, Sample Measurement, and Marshall Stability Test Procedure, FM2020003347, 26/08/2020
12. **Mohd Rosli Mohd Hasan**, Mohd Fouzi Ali, Shamsul Ishak, Zul Fahmi Mohamed Jaafar, Zulhairi Arifin, Video of Pavement Skid Resistance Test Procedure, FM2020003346, 26/08/2020
13. **Mohd Rosli Mohd Hasan**, Mohd Fouzi Ali, Shamsul Ishak, Zul Fahmi Mohamed Jaafar, Zulhairi Arifin, Video of Asphalt Binder Ductility Test Procedure, FM2020003344, 26/08/2020
14. **Mohd Rosli Mohd Hasan**, Mohd Fouzi Ali, Shamsul Ishak, Zul Fahmi Mohamed Jaafar, Zulhairi Arifin, Video of Aggregate Los Angeles Abrasion Value Test Procedure, FM2020003345, 26/08/2020
15. **Mohd Rosli Mohd Hasan**, Mohd Fouzi Ali, Shamsul Ishak, Zul Fahmi Mohamed Jaafar, Zulhairi Arifin, Video of Aggregate Flakiness & Elongation Index Test Procedure, FM2020003343, 26/08/2020

RESEARCH GRANTS

1. Assessments on Hydrophobic Modified Paper Mill Sludge Containing Cellulose and Calcium Carbonate for the Application as Alternative Modifier in Asphalt Mixture, RUI, 01/01/2020-30/06/2023, **Main Researcher – On-going**
2. Sistem Aeroponik Herba Ubatan Menggunakan Botol Kitar Semula Dan Baja Cecair Sisa Buah-Buahan Di SK Sungai Kecil Ilir Dan SMK Taman Mutiara, Karangian Kedah, Community Engagement Project, 01/11/2019-31/10/2020, **Co-researcher - Completed**

3. Characterization of adhesive coating and moisture-related distresses of asphalt mixtures based on aggregate roughness and water absorption criteria through multi-paradigm analysis, Fundamental Research Grant Scheme (FRGS), Duration: 01/08/2016-31/07/2019, **Main Researcher - Completed**
4. Crumb Rubber Modified Asphalt for Pavement Crack Sealant and Potholes Repair Applications, Short-Term Grant USM, Duration 1/10/16 – 30/09/2018, **Main Researcher - Completed**
5. Synergy Between Warm Mix Asphalt Technology and Recycled Asphalt for Sustainable Road Pavement in Malaysia treatability assessment of natural organic matter (NOM) of surface water and groundwater for drinking water purposes, RUI (Individual), Duration: 01/12/2014-30/11/2017, **Co-researcher - Completed**
6. Development and Characterization of Methanol-Foamed Asphalt Binders and Mixtures through Multiphase Assessment, Research Fund for International Young Scientists, National Nature Science Foundation of China, Duration: 01/01/2018 to 12/31/2019, **International - Main-researcher - Completed**
7. High Temperature Characteristics of Warm Mix Asphalt Mixtures with Nanoclay and Chemical Warm Mix Asphalt Modified Binders, IGSP grant (UTHM), Duration: 15/11/2016 – 15/04/2019, **Co-researcher-Completed**

TEACHING EXPERIENCES

1. Construction and Civil Engineering Materials, CE3101, *Michigan Technological University*, Spring 2012- Spring 2013
2. Highway and Traffic Engineering, EAL 235, *Universiti Sains Malaysia*, Semester 2, 2015/2016 to 2019/2020
3. Geotechnical, Highway and Traffic Engineering Laboratory, EAA304, *Universiti Sains Malaysia*, Semester 2, 2015/2016 to date
4. Pavement Engineering, EAL337, *Universiti Sains Malaysia*, Semester 1, 2016/2017 to date
5. Civil Engineering Practice, EAA273, *Universiti Sains Malaysia*, Semester 1, 2016/2017 to date
6. Sustainable Transport, EAL339, *Universiti Sains Malaysia*, Semester 2, 2016/2017 to date
7. Final year Project, EAA 492, *Universiti Sains Malaysia*, Semester 1, 2016-2017 to date
8. Transportation and Road Safety, EAL338, *Universiti Sains Malaysia*, Semester 2, 2016/2017 to date
9. Highway Design. EAL 431, *Universiti Sains Malaysia*, Semester 1, 2017/2018 to date
10. Industrial Training, EAA371, *Universiti Sains Malaysia*, Semester 1, 2017/2018 to 2018/2019
11. Integrated Design Project, EAA 495/4, *Universiti Sains Malaysia*, Semester 1, 2018/2019 to 2019/2020
12. Transportation and Road Safety, EAL338, *Universiti Sains Malaysia*, Semester 1, 2017/2018 to date

CONSULTATIONS / CONTRACT RESEARCH / TESTING [SELECTED INCOME GENERATION FOR UNIVERSITY]

1. Design and Construct the Proposed Resurfacing of Runway and Its Associated Works at Langkawi International Airport, Kedah Darul Aman, Perunding Kejuruteraan ARMi, 15/03/2020 - 31/01/2021, RM20,000.00
2. Pavement Material Testing, Highway Engineering Laboratory, 06/01/2020 - 10/11/2020, RM116,680.00
3. Aggregate Crushing Value, Kuad Sdn Bhd, 17/01/2019 - 25/01/2019, RM4,890.00
4. Los Angeles Abrasion Value Test (14mm sample), CSA INDUSTRIES, 13/11/2019 - 14/11/2019, RM3,850.00
5. Binder Content, Marshall Stability, Dian Permata Enterprise, 01/11/2019 - 07/11/2019, RM4,400.00
6. Adhesion and Impacts on Functional Properties, Czech Technical University In Praque, 09/10/2019 - 09/12/2019, RM14,568.75
7. Determination of Binder Content and Marshall Stability, MFZ Enterperise, 30/04/2018 - 22/05/2018, RM5,247.00
8. Evaluation of Field Trial Cored and Re-compacted Samples of Asphalt Mixtures Incorporating ZycoTherm, Zydex Industries India and Kamunting Premix Plant Sdn. Bhd., Kamunting Industrial Estate, Perak, 13/05/2019 - 12/01/2020, RM28,000.00

9. Bitumen Test (Asphalt 60/70), AG Resources Sdn Bhd, 18/04/2019 - 23/04/2019, RM5,350.00
10. Marshall Stability, Binder Content, Dian Permata Enterprise, 04/06/2019 - 12/06/2019, RM3,300.0
11. Development of Training Module for Sustainable Infrastructure System in Malaysia, CIDB, 01/01/2019 - 31/05/2019, RM10,000.00
12. A Study on Binder Rheology and Fatigue Properties of Asphalt Mixtures, PT Jaya Konstruksi Manggala Pratama Tbk, Kantor Taman Bintaro Jaya Gedung B, Jalan Bintaro Raya, Jakarta 12330, Indonesia, 08/03/2019 - 07/12/2019, RM33,528.00
13. Aggregate Test, Sunway Quarry Bukit Mertajam, 08/01/2020 - 14/01/2020, RM8,100.00
14. Testing of Polymer Modified Asphalt Samples, 30/03/2018 - 04/05/2018, RM5,480.20
15. Determination of Binder Content and Marshall Stability, MFZ Enterprise, 30/04/2018 - 22/05/2018, RM5,247.00
16. Determination of Binder Content Marshall Stability, MFZ Enterprise, 26/06/2018 - 11/07/2018, RM3,460.00
17. Determination of Physical and Mechanical Properties of Bitumen, Kuad Sdn. Bhd., 29/01/2018 - 05/03/2018, RM11,829.60
18. Performance Test of Cold CCPR - Dynamic Creep Test and Wheel Tracking Test (Including preparation of samples and testing), Kamunting Premix Plant Sdn. Bhd, 24/10/2018 - 21/11/2018, RM11,200.00
19. Asphalt Binder Quality Control for Changi Airport, Samsung-Koh Brothers Joint Venture, 16/04/2018 - 25/10/2018, RM9,100.00
20. Performance Test of Cold CCPR - Dynamic Creep Test and Wheel Tracking Test (Including preparation of samples and testing), Kamunting Premix Plant Sdn. Bhd, 24/10/2018 - 21/11/2018, RM11,200.00
21. Sand Equivalent Test, Fine Aggregate Angularity, Methylene Blue Value, Magnesium Sulphate Soundness Test, Specific Gravity and Water Absorption, Plasticity Index (BS1377), Aggregate Crushing Value (MS 30), Flakiness Index (MS 30), Magnesium Sulphate, Kuad Sdn Bhd, 27/12/2018 - 25/01/2019, RM10,610.00
22. Testing for roads and parking lots construction and rehabilitation, open client, 01/01/2016 - 31/12/2017, RM192,437.20
23. Additional Evaluation of Anti-Stripping Countermeasure to TPS Porous Asphalt Mixture, TAIYU Kensetsu Co., LTD. 5-14-2 Kanayama, Naka-Ku, Nagoya-city Japan 460-8383, 09/08/2016 - 08/08/2017, RM42,000.00
24. Engineering Properties of Warm Mix Asphalt Incorporating ZycoTherm; Duration: Feb 25 to Mei 24, 2016; Total cost: RM24,777.50; Client: KPP Sdn Bhd
25. Evaluation of Anti-Stripping Countermeasure to TPS Porous Asphalt Mixture in Malaysian Roads, Client: TAIYU Kensetsu Co., LTD., 5-14-2 Kanayama, Naka-Ku, Nagoya-city Japan 460-8383
26. Selection of Suitable Infrastructure Sustainability Rating Tool Between Envision System Rating Tool and CEEQUAL System Rating Tool Through Pilot Projects; Duration: 15/08/2016 – 31/05/2017; Cost: RM269,824.79; Client: Construction Research Institute of Malaysia (CREAM), Makmal Kerja Raya Malaysia, IBS Centre, 1st Floor, Block E, Lot 8, Jalan Chan Sow Lin, 55200 Kuala Lumpur
27. Aggregate properties test and mix design of ACB and ACW use granite and limestone aggregate; Client: Pens Industries, 6/2/17 – 30/6/17, RM25,000.00
28. Development of Infrastructure system for Malaysia, Cost RM 330,498.42; Client: Construction Research Institute of Malaysia (CREAM), Makmal Kerja Raya Malaysia, IBS Centre, 1st Floor, Block E, Lot 8, Jalan Chan Sow Lin, 55200 Kuala Lumpur, 11/10/17 – 6/8/18
29. Evaluation of Field Trial Cored and Re-compacted Samples of Asphalt Mixtures Incorporating ZycoTherm, Zydex Industries India and Kamunting Premix Plant Sdn. Bhd., Kamunting Industrial Estate, Perak, 13/05/2019 - 12/01/2020, RM28,000.00

BOARD/ COMMITTEE MEMBER/ MEMBER

Recognition from Professional Bodies

- Professional Technologist Building & Construction Technology (BC), Malaysia Board of Technologist, Since 06/06/2020

International Committee

- Member of the Road Engineering Association of Asia & Australasia (REAAA)
- Technical Program committee of International Conference on Civil, Offshore & Environmental Engineering 2018 (ICCOEE2018)
- Board of Review of International Journal of Engineering (2015 – To Date)
- Member of Advanced Pavement Mechanics and Materials Research Group, Under Engineering Mechanics Institute, ASCE
- Technical Program committee of International Conference on Civil, Offshore & Environmental Engineering 2016 (ICCOEE2016)
- Member of Michigan Technological University Alumni
- Certified Assessor for CEEQUAL Sustainable Rating Tool
- Review Committee of Research in Applied Sciences and Knowledge Engineering International Conference 2017 (RASK2017)
- Technical Committee of 5th IGNITE & AICCE 2017
- Committee member of 5th International Conference on Architecture, Civil and Hydraulic Engineering (ICACHE 2019), July 5-7, 2019 in Qingdao, China.
- Committee Member of 2nd International Symposium on Traffic Transportation and Civil Architecture (ISTTCA 2019) be held in Chengdu, China during December 13-15, 2019
- Editorial Board Member, Bilingual Publishing Co., 19/04/2019 - 18/04/2020
- Member of a Panel Discussion of JSCE Annual Meeting International Roundtable Meeting, 2019
- Committee Member of International Conference on Road and Airfield Pavement Technology (ICPT) 2019
- Committee Member of ICTIM 2020

Local Committee

- Members of Malaysian Research and Innovation Society (Lifetime membership)
- Jury at Perlis International Engineering Invention & Innovation Exhibition 2020 (Pi-envex 2020)
- Advisory and External Examiner Panel for the Program of Diploma in Civil Engineering, Politeknik Tuanku Sultanah Bahiyah – 2018
- Judge of Invention, Competition, and Exhibition v5(iCE v5), 15 Mac 2018
- Jury of the 3rd SIRIM Invention, Innovation & Technology Expo (Si2te) 2019
- Member of Malaysian Research and Innovation Society
- Jury at the International Innovation, Creativity and Technology Exhibition (i2CreaTE 2019)
- Head of Jury for the Green Carnival 2018, Northern Peninsula Malaysia Zone, Politeknik Seberang Perai, 2018
- Judge for the International EUREKA Innovation Exhibition 2018
- Technical Committee Member for the Development of Malaysian Sustainable Infra Rating Tool
- Vice Chairman of PPKA Welfare Club
- Tactical Member of Road Safety (with Hong Leong Yamaha Motor)
- Tactical Member of Road Safety Strategic Plan 2014-2020, Penang. Organizer: Office of State Secretary of Penang, Jan 2016 – To date
- Member of Graduate Engineer, Board of Engineer Malaysia (BEM) – Since Nov 2011
- Member of Road Engineering Association Malaysia
- Member of Universiti Sains Malaysia Alumni
- Panel Fast Track to a PhD Interview, 03/09/2018-03/09/2018, School of Civil Engineering, USM
- Members of Malaysia Board of Technologists

- Members of Global Research and Development Services

Service to University

- Speaker for the Publication on High Impact Factor Journal, School of Civil Engineering, 11/2/2020
- Facilitator and Speaker for the Training Need Analysis School of Civil Engineering, 02/01/2020
- Committee Member of ISTTCA 2019/ 2nd International Symposium on Traffic Transportation and Civil Architecture (ISTTCA), 13/12/2019-15/12/2019
- Quality Manager, School of Civil Engineering - 2019 – To date
- Committee of KPI record preparation, School of Civil Engineering – 2019 – to date
- Committee of KPI Strategy, School of Civil Engineering – 2019 – to date
- Committee member for Mentor-Mentee School of Civil Engineering – 2019 – to date
- PTI Task Force Team USM 2019 (1 April – 31 December 2019)
- Committee Member of ICACHE 2019 / 5th International Conference on Architecture, Civil and Hydraulic Engineering (ICACHE), 05/07/2019-07/07/2019
- Chairman of School Committee, Cleanliness and Sustainable Committee, 01/01/2019-31/12/2021
- Mentor, School of Civil Engineering, USM, 01/01/2019-31/12/2021
- School Board Members, School of Civil Engineering 2016 – To date
- Committee of Outcome-Based Education (OBE) School of Civil Engineering – Jan 1, 2016 – Dec 31, 2018
- Committee of Positional and Networking School of Civil Engineering - Jan 1 – Dec 31, 2016
- Committee of Laboratory Tests and Services School of Civil Engineering – Jan 1, 2016 – Dec 31, 2018
- Session Chairman for IGNITE 2017 conference – August 8,2017 – August 10, 2017
- Committee of IGNITE and AWAM 2017 Conference - Jan 2,2017 – August 10,2017

Service to Community & Industry

- Volunteer, Collaboration Agreement between Universti Sains Malaysia and Skymind Holdings Berhad, Industry, 01/09/2020-31/08/2023
- Volunteer for Transportation and Infrastructure and Wildlife Conservation, Industry, 09/04/2019-10/04/2019
- Project Leader for Potential application of Industrial by-product form MCB, Industry, 02/01/2019-31/12/2019
- Reviewer Panel for the preparation of textbook: Road Subgrade and Pavement Engineering, Changán University, October 2019
- Project Leader/Coordinator for University-Industry Program for Public Work Department, 26/10/2018-26/10/2018
- Volunteer for OBOR (One Belt One Road) Program, UiTM Shah Alam and Chang’an University, 25/07/2018-25/07/2018
- Volunteer for English Summer Camp, Chang’an Unniversity, Xi’an, China, 14/07/2018-26/07/2018
- Volunteer for Memorandum of Understanding between Universiti Sains Malaysia and Chang’an University, 28/04/2018-28/04/2018
- Project Leader/Coordinator for Highway Engineering Course (California Bearing Ratio dan Marshall Mix Design), 28/01/2018-28/01/2018
- Project Member/Co Researcher for Resurfacing and monitoring of pavement section (km 188.6 to km 189) on PLUS Highway, 14/06/2017-13/06/2018
- Project Member/Co Researcher for Potential application of tin slag in construction materials, Industry, 04/05/2017-31/12/2018
- Construction of the weir cover and check dams for water supply projects in Kg Orang Asli, Langkor, Sg Siput, Perak.
- External Panel for Verification of Final Exam Questions at Kolej Kemahiran Tinggi Mara (KKTM) Kelantan
- Program Advisor “ColorFund Run 2017”

- Advisor of a Primary School Innovation team [Sekolah Kebangsaan Permatang Tok Mahat, Nibong Tebal] 2017
- Invited Speaker for Career Development Module, 13/03/2016-13/03/2016
- Project Member, Road Safety Strategic Plan 2014-2020, Penang. Organizer: Office of State Secretary of Penang, 01/01/2016-30/12/2016
- Resurfacing and Monitoring of TPS Porous Asphalt Pavement Section (km 188.6 to km 189) on South Bound North-South Expressway.
- Project member of Hong Leong Yamaha Motor Road Safety
- Development of Sustainable Infrastructure Rating Tool (MyINFRA) to support sustainable development in Malaysia, 2016 – 2020

ACADEMIA INVOLVEMENTS & PROFESSIONAL TRAININGS:

- Guest Editor for Special Issue: Sustainable Pavement Materials and Developments, MDPI, 1/1/2021 – 30/6/2022
- Guest Editor for Special Issue: SDGs synergy for Sustainable Pavement, JTTE, 1/1/2021 – 30/9/2021
- Young Academic Editor, Journal of Traffic and Transportation Engineering (English Edition) 2020
- 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 (Fully Sponsored by US National Asphalt Pavement Association (NAPA))

Book Reviewer

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| 1. Green Infrastructure: Materials and Techniques | 2019 |
| 2. Guidance for Connectivity Conservation Impacted by Linear Transportation Infrastructure | 2020 |
| 3. IUCN WCPA: Maximizing ecological connectivity in the development of roads, railways and canals. | 2021 |

Journal Reviewer

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| 1. International Journal of Engineering | (2012 – To Date) |
| 2. Jurnal Teknologi, Universiti Teknologi Malaysia | (2014 – To date) |
| 3. Ain Shams Engineering Journal (ASEJ), Elsevier | (2015 – To date) |
| 4. Journal of Materials in Civil Engineering, ASCE | (2015 – To Date) |
| 5. International Journal of Pavement Research and Technology, Elsevier | (2016 – To date) |
| 6. Journal of Construction and Building Materials, Elsevier | (2016 – To date) |
| 7. Advances in Materials Science and Engineering, Hindawi | (2017 – To date) |
| 8. Journal of Testing and Evaluation, ASTM | (2016 – To date) |
| 9. Journal of Traffic and Transportation Engineering, Elsevier | (2018 – To date) |
| 10. International Journal of Pavement Engineering, Elsevier | (2018 – To date) |
| 11. International Journal of Technology (IJTech) | (2018 – To date) |
| 12. Journal of Energy & Fuels, ACS Publications | (2019 – To date) |
| 13. International Journal of Industrial Chemistry, Springer | (2019 – To date) |
| 14. Journal of Advances in Civil Engineering, Hindawi | (2019 – To date) |
| 15. Journal of Clean Technologies and Environmental Policy, Springer | (2019 – To date) |
| 16. Journal Developments in the Built Environment | (2019 – To date) |
| 17. International Journal of Mathematical Problems in Engineering | (2019 – To date) |
| 18. International Journal of Road Subgrade and Pavement Engineering | (2019 – To date) |
| 19. International Journal of Industrial Chemistry (IJIC) | (2019 – To date) |
| 20. International Journal of Engineering (IJE) | (2019 – To date) |

21. International Journal of Environmental Engineering (IJEE)	(2019 – To date)
22. Journal of Thermoplastic Composite Materials	(2019 – To date)
23. Jurnal Kejuruteraan (Journal of Engineering)	(2019 – To date)
24. Advances in Civil Engineering	(2019 – To date)
25. Journal of Engineering Science & Technology	(2019 – To date)
26. Journal of Cleaner Production	(2019 – To date)
27. Innovative Infrastructure Solutions, Springer Nature	(2020 – To date)
28. Waste Disposal & Sustainable Energy	(2021 – To date)
29. Transportation Geotechnics	(2021 – To date)
30. Advances in Concrete Construction	(2020 – To date)
31. Transportation Engineering	(2020 – To date)
32. Progress in Rubber Plastics and Recycling Technology	(2020 – 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)
3. Reviewer of 3rd International Conference on Civil, Offshore & Environmental Engineering 2016 (ICCOEE2016)
4. Reviewer of International Conference on Transportation Infrastructure and Materials 2016 (ICTIM2016)
5. Reviewer of the 3rd International Conference of Global Network for Innovative Technology 2016 (IGNITE2016), Review paper for publication in the AIP Conference proceeding
6. Reviewer of World Research & Innovation Convention on Engineering & Technology 2016 [WRICET2016]
7. Technical Reviewer of the International Conference on Sustainable Infrastructure Engineering – [ICSIE 2016]
8. Reviewer of The Research in Applied Sciences and Knowledge Engineering International Conference 2017 (RASK2017)
9. Technical reviewer IGNITE and AWAM Conference, 2017
10. Reviewer of International Conference on Civil, Offshore & Environmental Engineering 2018 (ICCOEE2018)
11. Reviewer of International Conference on Civil & Environmental Engineering 2018 (ICCEE 2018)
12. Technical Reviewer for 11th International Conference on Geotechnical Engineering in Tropical Regions (11th GEOTROPIKA) and 1st International Conference on Highway and Transportation Engineering (1st ICHITRA) – 2019
13. Reviewer of the AWAM International Conference on Civil Engineering 2019 (AICCE'19)
14. Reviewer of the 11th International Conference on Road and Airfield Pavement Technology 2019
15. Reviewer of International Conference on Sustainable Infrastructure Engineering, 2020

SUPERVISION

Graduated Postgraduate Students (Main-Supervisor)

	Student	Title	Level	Status
1.	J- Wei Chew	Applications of Novel Additive to Enhance the Resistance to Moisture Damage of Asphalt Mixture	M.Sc (Research)	<i>Graduated</i>
2.	Sharvin A/I M Poovaneshvaran	Characterization of Rubberized Asphalt Binders Containing Tough Fix Hyper Used in Asphalt Mixture and Crack Sealant	M.Sc (Research)	<i>Graduated</i>

3.	Ashiru Sani	Effects of Silane-and wax-based Surfactants on Behavior of Latex Modified Asphalt Binders and Mixtures,	Ph.D.	<i>Graduated</i>
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Graduated Postgraduate Students (Co-Supervisor)

	Student	Title	Level	Status
1.	Seyed Reza Omranian (as co-supervisor, Main Supervisor: Prof Dr. Meor Othman Hamzah, USM)	Investigation on Artificial Short-Term Aging Test Protocols and Aging Severities of Drum and Batch Produced Asphalt Practices Using Experimental Design Techniques	Ph.D.	Graduated
2.	Foad Mohamed Elkut (as co-supervisor, Main Supervisor: Prof Dr. Meor Othman Hamzah, USM)	Engineering Properties and Performance of Gap Graded Asphalt Mix	Ph.D.	<i>Graduated</i>
3.	Kabiru Abdullahi Ahmad (as Co-supervisor) (UTHM, Malaysia)	Application of Jatropha oil as rejuvenator in RAP asphalt mixtures	Ph.D.	<i>Graduated</i>
4.	Guo Tai (Changán University, China)	Determination of Suitable foaming agent for the Production of Latex modified asphalt mixture at Lower Temperature	M.Sc	<i>Graduated</i>
5.	Liyana Ahmad Sofri (UniMAP, Malaysia)	Development and Evaluation of Fly Ash based Geopolymer as a Road Base Material in Road Construction	Ph.D.	<i>Graduated</i>
6.	Ikenna Desmond Uwanuakwa Near East University, Cyprus, Turkey)	Investigations on the Performance of the Polymer Modified Asphalt Binders	Ph.D.	Graduated

Ongoing Postgraduate Students (Main-Supervisor)

	Student	Title	Level	Status
1	Hanizah Binti Osman	The effects of warm mix asphalt additives on recycled asphalt pavement	PhD	In progress
2	Zainiah Binti Mohd Zin	Study on aging and durability of natural latex modified asphalt mixes under Malaysian climate condition: field and lab assessments	PhD	In progress
3	Najib Mukhtar	Effect of natural binders as alternative asphalt fillers on pavement strength	M.Sc (Research)	In progress
4	Mohd Fahmi Haikal Bin Mohd Ghazali	Applicability of steel wool for induction healing of latex modified asphalt mixture	M.Sc (Research)	In progress
6	Waqar Ahmed Qul	Assessing the Effect of Various Vegetable Oil Rejuvenators on Asphalt Binder Behavior and High Reclaimed Asphalt Pavement Mixtures Performance	PhD	In progress

Ongoing Postgraduate Students (Co-Supervisor)

	Student	Title	Level	Status
1.	Muhammad Faheem Mohd (UNIMAP, Malaysia)	Production of low energy geopolymer asphalt mixture with a better resistance to moisture damage	Ph.D.	In progress

2.	Ikenna Desmond Uwanuakwa Near East University, Cyprus, Turkey)	Investigations on the Performance of the Polymer Modified Asphalt Binders	Ph.D.	In progress
3.	Mustafa Alas Near East University, Cyprus, Turkey	Evaluation of Performance Characteristics of polymer nano composite Modified Asphalt Binders and Mixtures	Ph.D.	In progress
4.	Shahreena Melati Rhasbudin Shah (UiTM, Malaysia)	The Effects of Lignin on Bitumen and Bituminous Mix Properties	Ph.D.	In progress
5.	Mohd Badrul Hisyam Abdul Manaf (UniMAP, Malaysia)	Performance of HMA using Perlis Limestone	Ph.D.	In progress

Undergraduate Students (Final Year Project)

	Student	Title	Semester
1.	Pavanithan A/L Nathan	The Effect of Aggregate Types on the Performance of Asphalt Mixture Incorporating Silane Additive Zycotherm	2016/2017
2.	Lee Mei Ting	Engineering Properties of Warm Mix Asphalt Incorporating Fly Ash	2016/2017
3.	Sharvin A/L Poovaneshvaren	Evaluation Of Crumb Rubber And Latex Modified Binder For Crack Sealant Purpose	2017/2018
4.	Lim Wee Zheng	Performance Of Rubber Modified Asphalt Mixures incorporating Silane Additive Zycotherm	2017/2018
5.	Muhammad Khuzaimi Bin Aziz	Assessment of Methanol as Foaming Agent in Asphalt Mixture Incorporating Latex	2018/2019
6.	Satis Kumar A/I Selvadurai	The performance of TPS –Porous Asphalt Incorporating Tough Fix Hyper	2018/2019
7.	Nge Jia Sheng	Assessments of bonding characteristics of asphalt mixture prepared with adhesion promoter	2018/2019
8.	Vincent Choong	Effects of industrial and household wastes on the mastic performance of prepared with self-healing gel	2019/2020
9.	Dillon Dipagk	Applicability of induction crack healing for the crumb rubber modified asphalt mixture	2019/2020
10.	Viisnu Prasath A/I Ratakrishnan	Self-healing capability of asphalt concrete with carbon steel waste using induction heating method	2019/2020
11.	Norshahirah Bt Adnan	Mechanical and Induction Healing Properties of Electric Arc Furnace	2019/2020
12.	Tracy Wong Leh Xin	Characterization of Hydrophobic-Treated Recycled Paper Mill Sludge in Bituminous Materials	2020/2021
13.	Mok Tai Han	Development of Bio-Asphalt Using Palm Bio-oil From Empty Fruit Bunches and Beta Carotene	2020/2021
14.	Muhamad Zulfatah Izham Muhamad Rodzey	Adhesion and Cohesion Bonding Characteristics of Asphalt Binders Modified with Bonding Promoters	2020/2021

Industrial Training - Supervision

	Name	Info	Date
1.	Mohamad Yazid Bin Mohamad Azmi	Student of Universiti Teknologi Mara, Pahang, (Diploma in Civil Engineering) Industrial training at the Highway Engineering Laboratory, School of Civil Engineering	09 July - 02 September 2018
2.	Muhammad Haikal Bin Abdul Halim	Student of Politeknik Sultan Abdul Halim Mu'adzam Shah, Jitra Kedah, (Diploma in Civil Engineering) Industrial training at the Highway Engineering Laboratory, School of Civil Engineering	1 March - 16 July 2021.
3.	Muhammad Zakwan bin Shahabuddin	Student of International Islamic University Malaysia (Bachelor of Engineering (Materials) (Honours)) Industrial training at the Highway Engineering Laboratory, School of Civil Engineering	5 July 2021 – 3 October 2021
4.	Sharmira Binti Husain	Student of Universiti Sains Malaysia, School of Civil Engineering (Bachelor of Engineering (Honours) (Civil Engineering)) Industrial training at the Highway Engineering Laboratory, School of Civil Engineering	2 August 2021 - 8 October 2021
5.	Nurul Hidayah Binti Mat Zali	Student of Universiti Sains Malaysia, School of Civil Engineering (Bachelor of Engineering (Honours) (Civil Engineering)) Industrial training at the Highway Engineering Laboratory, School of Civil Engineering	2 August 2021 - 8 October 2021

Research Assistants

	Name	Project	Date
1.	Muhammad Khuzaimi Bin Aziz	- Crumb Rubber Modified Asphalt for Pavement Crack Sealant and Pothole Repair Applications at Reduced Temperature (Short-Term Research scheme, USM) - Characterization of adhesive coating and moisture-related distresses of asphalt mixtures based on aggregate roughness and water absorption criteria through multi-paradigm analysis, Fundamental Research Grant Scheme (FRGS)	July – December 2017
2.	Eiman Hakim Bin Muhamad Razali	- Crumb Rubber Modified Asphalt for Pavement Crack Sealant and Pothole Repair Applications at Reduced Temperature (Short-Term Research scheme, USM) - Characterization of adhesive coating and moisture-related distresses of asphalt mixtures based on aggregate roughness and water absorption criteria through multi-paradigm analysis, Fundamental Research Grant Scheme (FRGS)	July – September 2017

3.	Muhammad Hazwan Bin Zaki	- Crumb Rubber Modified Asphalt for Pavement Crack Sealant and Pothole Repair Applications at Reduced Temperature (Short-Term Research scheme, USM) - Characterization of adhesive coating and moisture-related distresses of asphalt mixtures based on aggregate roughness and water absorption criteria through multi-paradigm analysis, Fundamental Research Grant Scheme (FRGS)	July – September 2017
4.	Muhammad Samsul Nazrin Bin Sa'ari	- Characterization of adhesive coating and moisture-related distresses of asphalt mixtures based on aggregate roughness and water absorption criteria through multi-paradigm analysis, Fundamental Research Grant Scheme (FRGS) - Applications of Novel Additive to Enhance the Resistance to Moisture Damage of Asphalt Mixture (No Grant)	October 2017 – to date
5.	Sharvin A/L Poovaneshvaren	Crumb Rubber Modified Asphalt for Pavement Crack Sealant and Pothole Repair Applications at Reduced Temperature	April 2017 – November 2018
6.	Mohd Fahmi Haikal Bin Mohd Ghazali	Assessments on Hydrophobic Modified Paper Mill Sludge Containing Cellulose and Calcium Carbonate for the Application as Alternative Modifier in Asphalt Mixture, RUI,	January 2020 - June 2023

INTERNAL EXAMINER OR REPRESENTATIVE FOR VIVA-VOCE/ PRESENTATION

PhD

- Rohaya Abdullah, Evaluation of Traffic Weaving Behavior and Performance at Malaysian Urban Highway Weaving Segments (Internal Examiner) - 2019
- Bashir M Bashir Aburawi, Effects of Aging, Temperature, Moist Aggregates, and Filler Type on the Performance of Warm Mix Asphalt Incorporating RH-WMA Additive, 13 March 2017 (As PPKA's Dean Representative)
- Lillian @ Lilia Gungat, Effects of RH-WMA on the Rheological and Engineering Properties Of Reclaimed Asphalt Binders And Mixtures, 14 February 2017, (As PPKA's Dean Representative)
- Ashar Ahmed, Safety Analysis of Unsignalized Intersections Under Erroneous Road Crash Data Influence, May 6, 2016 (As PPKA's Dean Representative)

MSc

- Mustaqin Alpi, M.Sc Dissertation: Performance of Park and Ride Program in Penang Bridge Express Shuttle Transit (BEST), September 2, 2016 (As PPKA's Dean Representative)
- Wan Norsariza Binti Wan Husin, M.Sc Dissertation, Mechanical and Physical Properties of Portland Composite Cement-Poly Vinyl Alcohol Concrete, December 22, 2016 (As PPKA's Dean Representative)

Postgraduate Seminar Presentation

- Wael A. Khudhayer, PhD Student, The Effect of Urban Space Configuration on Optimizing Shading Efficiency of Urban Space to Improve Pedestrian Thermal Comfort in Muscat Region , March 16, 2016
- Auni Diyana Fadzil, PhD Student, The Effect of Outdoor Thermal Towards Pedestrian Comfortness at Urban Public Area, March 16, 2016
- Nurulain Mohamed Hatta, MSc Student, Analysis of Pedestrian Evacuation Behavior at Underground Train Stations Based on Different Criteria of Egress Facilities, March 28, 2016

INVITED SPEAKER / KEYNOTE SPEAKER / TRAINING PROVIDED

- Invited Speaker in Advancements in Pavement Materials to Provide Sustainable Infrastructure, IEM Kelantan, IEM Kelantan, Half Day Webinar, 23/1/2021
- Invited Speaker in Green Road Infrastructure, ITERA / Sustainable Campus Office / UTHM/ NIED/ IYS, Impact Youth Sustainability, International Program - Ambassadors of Sustainability, 9/2/2021
- Keynote Speaker in Sustainable and Resilient Cities”, Webinar, Mizoram University, India, International Online Training Program, 20 – 28/7/2020
- Invited Speaker for Sustainable Asphalt, Universitas Sumatera Utara, Department of Civil Engineering, Universitas Sumatera Utara, Webinar, 5/6/2020
- Invited Speaker in Pavement Material, Chang'an University, China, School of Highway, Chang'an University, China, Webinar, 26/5/2020
- Public Seminar at the School of Highway, Chang'an University, Xian China, Dealing with climate change through advancements in pavement technology, 15 Aug 2019
- Invited Speaker in Asphalt, USM, TEDx USM Nibong Tebal, 16/11/2019
- Invited Speaker in Construction Materials, School of Materials Engineering and Center of Excellent Geopolymer & Green Technology (CEGeoGTech), UniMAP, Perlis, Green Building Materials are the Future, 29/11/2019
- Public Seminar at the School of Highway, Chang'an University, Xian China, Introduction to the School of Civil Engineering, USM and Performance of asphalt binders and mixtures prepared using Zycotherm, 19 Jan 2018
- Training on Handling Polish Stone Value Apparatus to UiTM technical staffs and lectures, 14 November 2017
- Speaker for Innovation Workshop (level 1) at Sekolah Kebangsaan Permatang Tok Mahat, 2017
- Speaker for Innovation Workshop (level 2) at Sekolah Kebangsaan Permatang Tok Mahat, 2017
- Speaker for “Talk Series for the Final Year Student” at School of Civil Engineering USM, Developing Research Methodology, 2017
- Speaker for Invited Lecture talk series at Universiti Malaysia Perlis, Highway and Bridge Technology, 2017
- Speaker for Smart Workshop: Report Preparation, Invited by Student Representative Council of USM, 2017
- Speaker for “Modul Pembangunan Kerjaya” at Universiti Teknologi MARA Pulau Pinang, Paving the way to a better future, From Student to Engineer/Scholar, March 13, 2016
- Graduate Seminar at the Department of Civil and Environmental Engineering, MTU, Assessments of Low Emission Asphalt Mixtures Produced using Combinations of Foaming Agents, November 2015
- Graduate Seminar at the Department of Civil and Environmental Engineering, MTU, Development and assessment of the Dynamic Asphalt Stripping Machine, January 26, 2012

HONORS AND AWARDS

International

- Silver Award at Malaysia Technology Expo 2020, Accelerated Laboratory Vacuum Saturator (ALVS), 20 - 22/2/2020, Kuala Lumpur, Malaysia
- Gold Medal at European Exhibition of Creativity and Innovation 2020, Low Energy Latex Modified Asphalt Mixture via Foaming Technique, 2020, Universiti Malaysia Perlis, Perlis, Malaysia
- Gold Award at Virtual Research and Innovation Exhibition UniMAP (EREKA), 1/7/2020 – 12/8/2020, Accelerated Moisture Damage Conditioning Chamber, Universiti Malaysia Perlis, Malaysia
- Silver Award at International Conference on Science Technology Engineering & Mathematics, 18 - 21/5/2020, Quick Crack Healing of Crumb Rubber Modified Asphalt Pavement via Induction Heating System, Universiti Malaysia Perlis, Malaysia
- Silver Medal at Bangkok International Intellectual Property, Invention, Innovation and Technology Exposition, GeoSTAB: Environmental Friendly Pavement Base Stabilizer, 2-6/2/2020, Bangkok, Thailand
- Recipient of Full Funding to attend the AUN/SEED-Net Alumni Reunion 2020, Bangkok
- Gold Award at the International Innovation, Creativity and Technology Exhibition (i2CreaTE 2019), Low-Energy Latex Modified Asphalt Mixture: Foaming Technology, KL, Malaysia

- Gold Award at the International Innovation, Creativity and Technology Exhibition (i2CreaTE 2019), High-Performance Latex-Asphaltic Crack Sealant (Hi-PLACS), KL, Malaysia
- Gold Award at the International Innovation, Creativity and Technology Exhibition (i2CreaTE 2019), Soft Grip Clamp, KL, Malaysia
- Bronze Medal at the SIRIM Invention, Innovation and Technology Expo (SI2TE2019), Asphalt-Aggregate Adhesion Tester
- Recipient of Matsumae International Foundation (MIF) Fellowship 2019
- Recipient of full support to attend Regional Conference in Civil Engineering (RCCE) from AUN/SEED-Net, Regional Conference in Civil Engineering (RCCE), Jogjakarta, Indonesia, 2018
- Gold Medal Award di SIRIM Invention, Innovation & Technology Expo 2018, Title: Low Energy & Emission Asphalt Mixture using Ethanol Foamed Bitumen.17-18 April 2018.
- Bronze Medal for the GEO-RBase Stabilizer Malaysia Road Conference, Road Engineering Association Malaysia (REAM), Invention and Innovation Exhibition (MRC IIE) 2018
- Double Gold Medal Award at the International Engineering Invention Innovation Exhibition (i-ENVEX 2018), Title: Accelerated Laboratory Vacuum Saturator (ALVS), UniMAP, 13-15 April 2018
- Special Award from World Invention Intellectual Property Associations (WIIPA) at the International Engineering Invention Innovation Exhibition (i-ENVEX 2018), Title: Accelerated Laboratory Vacuum Saturator (ALVS), 13-15 April 2018
- Gold Award, TISIAS, International Invention Innovation Competition in Canada (iCAN 2018)
- Recipient of Research Fellowship for International Young Scientists from National Science Foundation of China (Project title: Development and Characterization of Methanol-Foamed Asphalt Binders and Mixtures through Multiphase Assessment, Grant No.: 51750110491) – Jan 2018
- CEEQUAL Certified Assessor, granted by CEEQUAL Ltd UK (International) – Since 2017
- Recipient of Doctoral Finishing Fellowship from Michigan Technological University (Fall 2015)
- 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)
- Silver Medal Award from the International Exhibition of Ideas, Invention and Innovations Trade Fair (IENA), Nuremberg, Germany, 2013
- Gold Medal Award from the 22nd International Invention, Innovation & Technology Exhibition, ITEX 2011, Kuala Lumpur, Malaysia, 20 -22 May 2011

National

- Recipient of Anugerah Perkhidmatan Cemerlang 2018, Award from Universiti Sains Malaysia
- Recipient of Sanggar Sanjung 2018 (Publication) Award from Universiti Sains Malaysia.
- Recipient of Sanggar Sanjung 2017 (Publication) Award from Universiti Sains Malaysia.
- Recipient of Sanggar Sanjung 2016 (Publication) Award from Universiti Sains Malaysia.
- Recipient of Sanggar Sanjung 2015 (Publication) Award from Universiti Sains Malaysia.
- Recipient of SLAB/ Academic Staff Teaching Scheme (ASTS) (Jan 2012 – Feb 2016)
- Recipient of Sanggar Sanjung (Publication) Award from Universiti Sains Malaysia. 2012
- Recipient of the Persada Kencana Award- Publication Category (2014)
- Recipient of the Persada Kencana (Invention-Dynamic Asphalt Stripping Machine) Award 2013
- Best Paper Award in the International Conference on Road and Airfield Pavement Technology (ICPT), August 2011
- Recipient of the Best Thesis Award (Engineering Cluster) Persada Kencana Award (2011)
- Recipient of Excellent 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

- 3rd Prize Best Paper Award in the 8th 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