

BRIEF CV

Prof Ts Dr Mohd Rosli Bin Hainin
(Updated: 11 September 2021)



PERSONAL DETAILS

Name : Mohd Rosli Bin Hainin
 Date of Birth : 8 December 1967
 Place of Birth : Temerloh, Pahang
 Nationality : Malaysia
 Title : Professor of Civil Engineering
 Position : **Deputy Vice Chancellor** (Academics and International)
 Universiti Malaysia Pahang (Secondment)

Tel : (Mobile) : +6013-7415050 (Office):+609-4245003 (Fax):+609-4245455
 E-mail : roslihainin@ump.edu.my, mrosli@utm.my, roslihainin@gmail.com
 Website : <https://people.utm.my/mrosli>

Expertise : **Civil Engineering - Highway Design Technology and Materials**

ACADEMIC BACKGROUND

2001-2004 : Ph.D in Civil Engineering, National Center for Asphalt Technology, Auburn University, Alabama, USA
 1994-1996 : M.Sc in Civil Engineering, University of Kansas, Kansas, USA
 1987-1990 : B.Sc in Civil Engineering, Clemson University, S.Carolina, USA
 1985-1987 : Assoc. Degree in Science, Indiana University, KPP-USA
 1983-1984 : SPM Sek Men (A) Wilayah Persekutuan (SMAWP) Labu
 1980-1982 : SRP Sek Men (A) Al-Khairiah, Temerloh, Pahang

EMPLOYMENT

Date	Positions/Employer
1 Nov 2019 – present	Deputy Vice Chancellor (Academics and International) <i>Universiti Malaysia Pahang</i>
3 Jan 2013 – present	Professor, <i>Universiti Teknologi Malaysia</i>
Aug 2007 – 2 Jan 2013	Associate Professor, <i>Universiti Teknologi Malaysia</i>
Dec 2005 – July 2007	Senior Lecturer, <i>Universiti Teknologi Malaysia</i>
May 2001 – May 2004	Research Assistant, <i>National Center for Asphalt Technology, Auburn University, Alabama, USA</i>
Jan 1997 – Dec 2005	Lecturer, <i>Universiti Teknologi Malaysia</i>
April 1995 – Dec 1996	Teaching and Research Assistant, <i>University of Kansas USA</i>
29 Dec 1990 – Dec 1996	Assistant Lecturer 'A', <i>Universiti Teknologi Malaysia</i>
1 Aug 1990 – 28 Dec 1990	Site Engineer, <i>Muhibbah Engineering(M) Pvt Ltd</i>

UNIVERSITY/FACULTY POST

22 Nov 2019 – 31 Oct 2022	Deputy Vice Chancellor (Academics and International)
1 July 2018 – 21 Nov 2019	Associate Chair (Academics and Student Development), School of Civil Engineering
1 Feb 2015 – 31 Jan 2017	Deputy Dean (Academic) Faculty of Civil Engineering
1 May 2010 – 31 Jan 2015	Head of Department of Geotechnics and Transportation
1 Nov 2017 – 31 Aug 2018	Head of Pavement and Transportation Research Group
1 Sept 2015 - 31 Oct 2017	Head of Pavement Research Group
1 March 2017 – 31 Jan 2019	Accreditation Committee of UTM
1 Dec 2013 – 30 Nov 2017	Chairman for Panel of Book Committee UTM
1 Sept 2009 – 31 Aug 2011	Head of Pavement Research Group
May 2005 – May 2010	Head of Transportation Laboratory
1991 – Sept 1994	Head of Highway Laboratory

SUPERVISION

Level	Number of Students	Graduated
PhD	31 (14 as main Supervisor)	25 (11 as main Supervisor)
Master	80 (74 master by project)	80 (74 master by project)
BSc (Final Year Project)	144	144

POST GRADUATE EXAMINATION

Level	Number
PhD Examiner	28
Master Examiner	8
Viva Chairman	31

PUBLICATION

Journal Article H-Index (Google Scholar): 32, Citation – 3952 (Top 13 in Pavement Engr) H-Index (Scopus): 25, Citation – 2275 ResearchGate Score – 35.92 (Top 12.5%) Citation – 2967 H-Index (WOS): 21, Citation 1448	<u>302 nos.</u> - 248 nos. (Scopus Index) - 176 nos. (WOS Index) - 25 Q1, 26 Q2-Q4 Journals
Conference Proceedings	105
Book/Monograph/Book Chapter	22
Newspaper/ Magazine	17

RESEARCH

46 Projects (1997-2020) worth RM 4 million (15 as Principal Investigator)

CONSULTANCY

2006-2020 – Various projects in Pavement Materials Evaluation worth RM 2 Million

PATENT/COPYRIGHT

1. Guideline for Carbon Footprint Calculation for MyGHI *IP/CR/01733*, 2021.
2. Innovation Video for Asphalt FWB *IP/CR/02103*, 2021.
3. Asphalt FWB *IP/CR/02139*, 2021.
4. Enhanced dry process method for waste plastic modified asphalt mixture *IP/CR/02109*, 2021.
5. Reclaimed Asphalt Pavement Incorporating Maltene *IP/PT/2019/0898*, 2019.
6. Quality assurance of school of civil engineering UTM *IP/CR/2019/1234*, 2019.
7. Analogue Architectural System for Carbon Footprint Calculator Assessment *IP/CR/2019/0929*, 2019.
8. WMA-Cup lump *IP/PT/2019/0928*, 2019.
9. Program handbook for master of engineering transportation *IP/CR/2019/0059*, 2019.
10. Blending Process Cup Lump Rubber in Modified Asphalt *IP/CR/2019/0228*, 2019.
11. SKAB curriculum for bachelors degree of civil engineering UTM *IP/CR/2019/0163*, 2019.
12. Curriculum for Master in Highway and Transportation *IP/CR/2019/0059*, 2019.
13. Web based Application for Malaysian Green Highway Index *IP/CR/2018/0706*, 2018.
14. Studded Concrete Block Paver *LY 2018003883*, 2018.
15. Bio-Asphalt *IP/CR/2017/0783*, 2017.
16. Slide Pengajaran dan Pembelajaran Asphalt Modification *IP/CR/2017/0270*, 2017.
17. Green composite building material *IP/CR/2016/0487*, 2016.
18. Areca catecu leaves extract as green inhibitor *IP/CR/2016/0485*, 2016.
19. Students report card considering integrated cumulative grade point average ICGPA *IP/CR/2016/0661*, 2016.
20. An Improved Binder Composition For Flexible Pavement *UI 2016701528*, 2016.
21. Single Face Compaction on Asphalt Specimen *PI 2014701351*, 2014.
22. A Surface Friction Tester *PI 20083089 MY-150024*, 2008.

RECOGNITION

1. Komanden, Kor Siswa Angkatan Pertahanan Awam (APM), Universiti Malaysia Pahang 2020
2. Chairman, the 1st International Conference on Highway and Transportation (ICHITRA2019)
3. Chairman of the joint conference GEOCON 2013, the 9 th International Conference on Geotechnical (GEOTROPIKA 2013) and Transportation Engineering and the 1 st International Conference on Construction and Building Engineering – 28 – 30 Oct 2013.
4. Chief Editor Jurnal Teknologi Special Issue on Highway and Transportation Engineering, Vol 73-4 (2015), Vol 71-3 (2014), Scopus Index
5. Editorial Board Member, Borneo Journal of Science and Technology, Sept 2018- present
6. Editorial Board Member, Journal of Advanced Civil and Environmental Engineering, Indonesia 2017 – present
7. Editorial Board Member, Jurnal Teknologi (2016-present), WOS Scopus

8. Editorial Board Member, Journal of Pavement Research and Technology (2015-present), ELSEVIER Scopus
9. Professional Technologist (PT17120019), Malaysian Board of Technologist (MBOT) 2017-present
10. Graduate Technologist (GT17120236), Malaysian Board of Technologist (MBOT) 2017-present
11. Senior Graduate Member (115890), Institution Engineer Malaysia (IEM) 2021-present
12. Executive Committee Member of the International Committee on Pavement Technology (ICPT) 2007- present
13. Committee Member of the Road Engineering Association of Malaysia Education Fund 2017
14. Pavement Technical Committee for Road Engineering Association of Malaysia (REAM) (2011-2013)
15. 54th UTM Professorial Inaugural Lecture Series (Oct 2014), Lecture Book Published by UTM Press 2015. ISBN 9789835211409 "Green Technology in Pavement Engineering"

AWARDS AND ACHIEVEMENTS

1. 2021 : Anugerah Penerbitan Rencana Terbaik, Universiti Malaysia Pahang (UMP)
2. 2019 : 1 Silver Medal Award for Web-Based Tool for Malaysian Green Highway Index (MyGHI), Malaysia Technology Expo (MTE) 2019
3. 2018 : Best Research Group Award, Pavement and Transportation Research Group (PTRG), Faculty of Civil Engineering, UTM
4. Oct 2018 : 1 Bronze Medal Award, INATEX 2018, Universiti Teknologi Malaysia (UTM)
5. Oct 2018 : 3 Silver Medal Awards, 10th Malaysian Road Conference (MRC) 2018
6. August 2018 : Outstanding Reviewer for Sustainable Materials and Technologies, ELSEVIER
7. June 2018 : Outstanding Reviewer for Pervasive and Mobile Compacting
8. May 2018 : Outstanding Reviewer for Transportation Geotechnics
9. Feb 2018 : Outstanding Reviewer Journal of King Saud University – Engineering and Science
10. Jan 2018 : Outstanding Reviewer for Resource Policy
8. 2017 : Best Research Group Award, Pavement and Transportation Research Group (PTRG), Faculty of Civil Engineering, UTM
9. Jan 2017 : Outstanding Reviewer Journal of Construction and Building Materials (JCPM)
11. Aug 2017 : Outstanding Reviewer Journal of Cleaner Production (JCP)
10. 2017 : Index Journal Award, Citra Karisma UTM
11. 2017 : Bronze Medal Award, 19th Industrial Art & Technology Exhibition INATEX UTM
12. 2016 : Silver Medal – IPHEX- ICGPA Implementation
13. 2016 : 2 Silver Medal Awards
27th International Innovation and Technology Exhibition,
ITEX 2016 By Malaysian Invention and Design Society (MINDS)
14. 2015 : Excellence Service Award by Universiti Teknologi Malaysia
15. 2015 : Silver Medal Award
Seoul International Invention Fair,
SIIF 2015 By Korea Invention Promotion Association
16. 2015 : Gold Medal Award
26th International Innovation and Technology Exhibition,
ITEX 2015 By Malaysian Invention and Design Society (MINDS)

17. 2015 : Silver Medal Award
17th Industrial Art & Technology Exhibition,
INATEX 2015 ByUniversiti Teknologi Malaysia (UTM)
18. 2015 : Silver Medal Award
17th Industrial Art & Technology Exhibition,
INATEX 2015 ByUniversiti Teknologi Malaysia (UTM)
19. 2015 : Bronze Medal Award
Innovative Practices in Higher Education Expo,
I-PHEX 2015 ByCentre for Engineering Education
20. 2015 : Media Award Faculty of Civil Engineering (FKA) UTM
21. 2014 : Index Journal Award at Citra Karisma by UTM
22. 2014 : 54th UTM Professorial Inaugural Lecture Series (Syarahan Perdana)
23. 2014 : Publication Award at Anugerah Kualiti by Faculty of Civil
Engineering, UTM
24. 2014 : Gold Medal Award
9th Malaysian Road Conference & Invention and Innovation Exhibition (MRC-
IIE)
25. 2014 : Silver Medal Award
9th Malaysian Road Conference & Invention and Innovation Exhibition (MRC-
IIE)
26. 2013 : Consultancy Award by Faculty of Civil Engineering, UTM
27. 2013 : Gold Medal Award
24th International Innovation and Technology Exhibition,
ITEX 2013 By Malaysian Invention and Design Society (MINDS)
28. 2013 : Bronze Medal Award
Seoul International Invention Fair 2013
Korea Invention Promotion Association
29. 2013 : Bronze Medal Award
International Conference and Exposition on Invention of Institutions of Higher
Learning,
PECIPTA 2013 Malaysian Ministry of Higher Education
30. 2012 : Supervision Award by Faculty of Civil Engineering, UTM
31. 2008 : Best Journal @ National Level at the Citra Karisma Award
32. 2008 : Excellence Service Award by Universiti Teknologi Malaysia
33. 2004 : Excellence Service Award by Universiti Teknologi Malaysia

25 Journals Q1 and 5 Q2 (Authored and co-authored)

1. Palm oil fuel ash application in cold mix dense-graded bituminous mixture (2021). Construction and Building Materials, ISSN: 0950-0618, **IF- 6.841, WOS-Q1**
2. Physical, thermal and micro-surface characteristics of PG76 binder incorporated with liquid chemical WMA additive (2021). Construction and Building Materials, ISSN: 0950-0618, **IF- 6.841, WOS-Q1**
3. Characterisation of microstructural and sound absorption properties of porous asphalt subjected to progressive clogging (2021), Construction and Building Materials, ISSN: 0950-0618, **IF- 6.841, WOS-Q1**
4. Mechanical performance and global warming potential of unaged warm cup lump modified asphalt (2021). Journal of Cleaner Production, ISSN: 0959-6526 , **IF- 9.444, WOS-Q1**
5. Influence of diatomite filler on rheological properties of porous asphalt mastic. International Journal of Pavement Engineering, ISSN: 1029-8436, **IF: 2.322, WOS-Q1**

6. Assessment framework for pavement material and technology elements in green highway index, M Bujang, MR Hainin, MZA Majid, MKIM Satar, WNAW Azahar Journal of Cleaner Production 174 (2018), 1240-1246, **IF- 4.959, WOS-Q1**
7. Microstructural Investigation on Air Void Properties of Porous Asphalt Using Virtual Cut Section, , Construction and Building Materials 155, pp 485-494 (2017), **IF- 2.421, WOS-Q1**
8. Use of waste cooking oil, tire rubber powder and palm oil fuel ash in partial replacement of bitumen, accepted for publication, Construction and Building Materials 150, pp 95-104 (2017), **IF- 2.421, WOS-Q1**
9. Mechanical Performance of Asphaltic Concrete Incorporating Treated Waste Cooking Oil, accepted for publication, Construction & Building Materials 150, pp 653-663 (2017), **IF- 2.421, WOS-Q1**
10. Pollution to solution: Capture and sequestration of carbon dioxide (CO₂) and its utilization as a renewable energy source for a sustainable future. Renewable and Sustainable Energy Reviews 71, 112-126, (2017), **IF- 6.798, WOS-Q1**
11. Effects of mixture design variables on rubber-bitumen interaction: properties of dry mixed rubberized asphalt mixture. Materials and Structures 50 (1), 12, (2017), **IF- 2.453, WOS-Q1**
12. Chemical modification of waste cooking oil to improve the physical and rheological properties of asphalt binder. Construction and Building Materials 126, 218-226, (2016), **IF- 2.421, WOS-Q1**
13. Density profile of hot mix asphalt layer during compaction with various types of rollers and lift thickness. Construction and Building Materials 121, 265-277, (2016), **IF- 2.421, WOS-Q1**
14. Evaluation of Performance Characteristics of Stone Mastic Asphalt Incorporating Industrial Waste. Journal of Materials in Civil Engineering 28 (12), 06016016, (2016), **IF- 1.296, WOS-Q2**
15. Laboratory evaluation on the characteristics and pollutant emissions of nanoclay and chemical warm mix asphalt modified binders. Construction and Building Materials 113, 488-497, (2016), **IF- 2.421, WOS-Q1**
16. Engineering properties of asphalt binders containing nanoclay and chemical warm-mix asphalt additives. Construction and Building Materials 112, 232-240, (2016), **IF- 2.421, WOS-Q1**
17. High temperature characteristics of warm mix asphalt mixtures with nanoclay and chemical warm mix asphalt modified binders. Journal of Cleaner Production 122, 326-334, (2016), **IF- 4.959, WOS-Q1**
18. Comparative evaluation of dense-graded and gap-graded asphalt mix incorporating electric arc furnace steel slag and copper mine tailings. Journal of Cleaner Production 122, 315-325, (2016), **IF-4.959, WOS-Q1**
19. Curing of Asphalt Emulsified Tack Coat Subjected To Malaysian Weather Conditions. Journal of Materials in Civil Engineering, 27 (4) (2015), pp04014147-1-10, ISSN: 0899-1561 **ISI -IF:1.296, WOS-Q2**
20. An overview on alternative binders for flexible pavement. Construction and Building Materials 84 (2015), pp 315-319, ISSN: 0950-0618 **ISI -IF:2.293, WOS-Q1**
21. Microstructural characterisation of dry mixed rubberised asphalt mixtures. Construction and Building Materials 82 (2015), pp 173-183, ISSN: 0950-0618 **ISI -IF:2.293, WOS-Q1**
22. Characterisation of micro-structural damage in asphalt mixtures using image analysis. Construction and Building Materials 53 (2014), pp 27-38, ISSN: 0950-0618 **ISI -IF:2.293, WOS-Q1**
23. Investigation into Hot-Mix Asphalt Moisture-Induced Damage under Tropical Climatic Conditions. Construction and Building Materials 50 (2014), pp 567-576, ISSN: 0950-0618 **ISI -IF:2.293, WOS-Q1**
24. The effect of lift thickness on permeability and the time available for compaction of hot mix asphalt pavement under tropical climate condition, Construction and Building Materials 48 (2013) 315–324. ISSN: 0950-0618 **ISI -IF: 2.293, WOS-Q1**
25. Fundamental and Rheological Properties Oil Palm Fruit Ash Modified Bitumen. Construction and Building Materials 49 (2013), pp 702-711, ISSN: 0950-0618 **ISI -IF:2.293, WOS-Q1**
26. Modelling the Rheological Properties of Bituminous Binders using the 2S2P1D Model. Construction and Building Materials 38 (2013), pp 395-406, ISSN: 0950-0618 **ISI -IF:2.293, WOS-Q1**
27. Modelling the Rheological Properties of Bituminous Binders Using Mathematical Equations. Construction and Building Materials, 40 (2013), pp 174-188, ISSN: 0950-0618 **ISI-IF: 2.293, WOS-Q1**

28. Comparative evaluation of hot-mix asphalt design methods. International Journal of Pavement Engineering, 13(2), 89-97, ISSN: 1029-8436, **ISI-IF: 1.832, WOS-Q2**
29. Ling, T. C., Nor, H. M., Hainin, M. R., & Chik, A. A. (2009). Laboratory performance of crumb rubber concrete block pavement. International Journal of Pavement Engineering, 10(5), 361-374, ISSN: 1029-8436, **ISI-IF: 1.832, WOS-Q2**
30. Ling, T. C., Nor, H. M., & Hainin, M. R. (2009). Properties of crumb rubber concrete paving blocks with :SBR latex. Road Materials and Pavement Design, 10(1), 213-222, ISSN: 1468-0629, **ISI-IF: 1.401, WOS-Q2**