



UTM
UNIVERSITI TEKNOLOGI MALAYSIA

CURRICULUM VITAE



PERSONAL DETAILS

Name : DR. ZAITON HARON
Position : Associate Professor, School of Civil Engineering,
Faculty of Engineering, UTM, Johor
Gender : Female
Date of Birth : 12 October
Nationality : Malaysian
Marital Status : Married
Corresponding Address: : Department of Structure and Material
M50-03-30-01 School of Civil Engineering
Universiti Teknologi Malaysia
Skudai 81310, Johor, Malaysia
Tel : 010-7605327(Mobile) :+ 6075566157(Fax):
E-mail : zaitonharon@utm.my, zaitonharon@gmail.com
Website : <https://people.utm.my/zaitonharon/>
ID Staff : 5327
Expertise : Construction Noise Modelling, Environmental Acoustics,
Concrete For Sound Insulation, Concrete Structures For Blast Resistant
Design, Reinforced Concrete Design

ACADEMIC QUALIFICATIONS

2007 : Building and Environmental Acoustics (Ph.D.)
University of Liverpool
1993 : M.Sc. (Structure)
Universiti Teknologi Malaysia
1988 : B. Sc. (Civil Engineering)
Universiti Teknologi Malaysia

AWARD AND HONORS RECEIVED

- i) June 2019- **Best Scholarly Book Award For The Category Science, Technical And Medicine**, Book Title: Construction Noise: Issues, Measurements and Predictions, 2018 MAPIM-KPM Award, organised by Ministry of Education under the Malaysian Council of Scholarly Publishers (Majlis Penerbitan Ilmiah Malaysia, MAPIM)
- ii) August 2019-**Anugerah Penasihat Terbaik**, School of Civil Engineering, Faculty Engineering, UTM
- iii) August 2016-**Gold Award** at the International Invention Innovation Competition in Canada (iCAN 2016), [International Federation of Inventors' Associations](#) (IFIA)
- iv) May 2016- **Gold Award** at the International Invention & Innovation Exhibition (ITEX 2016), [International Federation of Inventors' Associations](#) (IFIA)
- v) February 2015- **Gold Award** (Malaysian Technology Exhibition 2015 (MTE 2015), Malaysian Association of Research Scientists (MARS)
- vi) December 2015- **Gold Award** (Malaysian Research and Innovation Exhibition 2015 (MRCIE 2015), UniKL and Malaysian Institute of Industrial Technology
- vii) December 2015- **Best Project Innovation Competition** (Malaysian Research and Innovation Exhibition 2015(MRCIE 2015), UniKL and Malaysian Institute of Industrial Technology
- viii) August 2015-**3rd Best paper** in The Second International Conference on Construction and Building Engineering 2015 (ICONBUILD 2015), Universitas Bung Hatta & Universiti Teknologi Malaysia
- ix) November 2015-**Silver Award** (Industrial Art and Technology Exhibition (INATEX 2015), Universiti Teknologi Malaysia
- x) August 2015-**Faculty Special Award** for Innovative Practices in Higher Education Expo 2014 (I-PHEX 2014):Open- ended Experiment in Civil Engineering Laboratory, Faculty of Civil Engineering, UTM
- xi) August 2015-**Faculty Special Award** for Task Force Strategic plan 2014, Faculty of Civil Engineering, UTM
- xii) October 2014-**Silver & Bronze Awards** (Industrial Art and Technology Exhibition (INATEX 2014), Universiti Teknologi Malaysia
- xiii) May 2014-**Silver Award** in The Innovative Practices in Higher Education Expo2014 (I-PHEX 2014), Kementerian Pendidikan Malaysia, Higher Education Leadership Academy, Universiti Teknologi Malaysia, International Federation of Engineering Education Societies, Society of Engineering Education Malaysia.

- xiv) February 2013- **Bronze Award** (Malaysian Technology Exhibition 2013 (MTE 2013), Malaysian Association of Research Scientists (MARS))
- xv) October 2012-**Silver Award** (Industrial Art and Technology Exhibition (INATEX 2012), Universiti Teknologi Malaysia)
- xvi) July 2011- **Excellent Service Award 2010**, Universiti Teknologi Malaysia

PROFESSIONAL MEMBERSHIP / QUALIFICATIONS / RECOGNITION

- Jun 1988 : Member, Board of Engineer Malaysia (BEM)
- Dec 2012 : Ordinary Member, Acoustical Society of America (ASA)
- Jan 2013 : Member, The International Institute of Acoustics and Vibration (IIAV)
- April 2013 : Ordinary Member, Charetered Malaysian Society of Engineering and Technology (mSET) (00546)
- March 2018 : Noise, Vibration And Comfort Society Malaysia, Ordinary Member

ADMINISTRATIVE EXPERIENCE

Faculty Level

- Sept 2018 - : Course coordinator for Reinforced Concrete Design I
- May 2018-Jun 2018 : Committee member of Self-Assessment Report Faculty of Civil Engineering (Section 4)
- Jan 2013-jan 2015 : Coordinator of Academic (Undergraduate), Faculty of Civil Engineering
- Jan 2008-Dec 2008 : Chairman, Outcome based Implementation in Faculty of Civil Engineering
- April 2013-Jun 2014 : Committee member of Self-Assessment Report Faculty of Civil Engineering
- Jan 2007-Dec 2012 : ISO procedure owner of Teaching Laboratory, Faculty of Civil Engineering
- Jan 2007-Dec 2012 : Committee member of Curriculum and Syllabus, Faculty of Civil Engineering
- Jan 2007-Dec 2012 : Laboratory Coordinator, Faculty of Civil Engineering

University Level

- 2017 : Editor, 2 Bookchapters: 1. Community Perception On Noise; 2. Innovative Computational Methods Of Acoustics Parameters, Penerbit UTM
- 2015 : Reviewer, The Second International Conference on Construction and Building Engineering 2015 (ICONBUILD 2015), and Jurnal Teknologi
- 2015 : Reviewer, The Noise and Vibration Conference, UKM and Jurnal Teknologi
- 2015 : Advisor for 3 student groups for UTMBridge 2015
- 2013 : Advisor for Pontoon Competition at UTHM
- 2012 : Editor, Bookchapters: Contemporary Issues In Construction and Emerging Issues On Sustainable Urban Development, Penerbit UTM
- 2012 : Advisor for a group of student for UTMBridge (1st Prize)
- 2012 : Advisor for a group of student for Green youth Competition by UTM & KeTTHA UTMBridge (2nd Prize)

OTHERS EXPERIENCE

NATIONAL COMMITTEE

- i) FKA Alumni Dinner (UTM-CEAD 2019), Ketua Unit Penajaan/Penyertaan
- ii) Chairman, The 4th Joint Seminar in Acoustic Research between UTM-UM-UTHM, 9th December 2017.
- iii) Co-Chairman, The 3rd Joint Seminar in Acoustic Research between UTM-UM-UTHM-UITM, December 2016.
- iv) Appointment as Committee member for UTMBridge Competition since 2007, 2009, 2012, 2015, 2017, 2019, Faculty of Civil Engineering.
- v) Research Fellow, Construction Research Management Centre, UTM
- vi) Research Affiliator, Construction research Centre UTM, Jan 2013-Dec 2015

INTERNATIONAL APPOINTMENT/COMMITTEE

- i) International UTM Bridge Competition 2019
- ii) Editor of International of Journal The Asian Review of Civil Engineering
- iii) Reviewer of Journal of Engineering Science and Technology (JESTEC)
- iv) Judge for Judge for SPE-UTM Intellectual Day 2019
- v) Reviewer for Journal of Cleaner production
- vi) Reviewer of International Journal of Automotive and Mechanical Engineering (IJAME)
- vii) Reviewer of International Journal of Integrated Engineering
- viii) Reviewer of National Academy Science Letters
- ix) Reviewer of ASPSEC 2018
- x) Reviewer of ICONBUILD 2017
- xi) Committee Member of 2nd International Conference on Construction and Building engineering, 11-13 August 2015. Padang Sumatera
- xii) Reviewer, The Alexandria Engineering Journal 2014
- xiii) Reviewer, The Advance Science Letters Journal 2013
- xiv) Reviewer, Archive And Environment Journal, 2016
- xv) Reviewer, ICONBUILD Conference 2017
- xvi) Reviewer, IGSCOME 2017.
- xvii) Reviewer, International Journal of Technology, (Ijtech), 2016 to 2018

TEACHING AND LEARNING RESPONSIBILITIES

COURSE TAUGHT

- a. Reinforced Concrete Design I & II
- b. Civil Engineering Laboratory I
- c. Civil Engineering Laboratory II
- d. Integrated Design Project II
- e. Sustainability And Environmental Management In Construction (Master in Construction)

ACADEMIC ADVISOR FOR UNDERGRADUATE (2019/2020)

Bil	No.Kp	Matrik	Nama	T/Kursus	Pngk
1	970508135190	A17KA0026	CHERYL HONG SHING YEE	3 - SKAW	3.94
2	980217135923	A17KA0054	LAU TUANG KWONG	3 - SKAW	3.74
3	970115016182	A17KA0055	LEE TONG SING	3 - SKAW	3.91
4	980716055389	A17KA0071	MOHAMMAD HANIF BIN YAAKUB	3 - SKAW	2.82
5	980509105857	A17KA0072	MOHAMMAD NAJIB BIN ABDULLAH	3 - SKAW	3.48
6	980309017035	A17KA0075	MUHAMAD ADLAN FARHAN BIN ROSNAN	3 - SKAW	2.94
7	980524015155	A17KA0076	MUHAMAD FARRIS BIN KAMAL	3 - SKAW	3.77
8	980530025915	A17KA0077	MUHAMAD FAUZI NAIM BIN AYUB	3 - SKAW	3.53
9	980408085404	A17KA0138	NUR FARZANA WADIAH BINTI MEOR AZHAR	3 - SKAW	3.21
10	980708016590	A17KA0139	NUR HARSYIKIN BINTI BADRI	3 - SKAW	3.82
11	981107045104	A17KA0141	NUR IZZATI BINTI MOHD YUSOFF	3 - SKAW	3.65
12	980507045336	A17KA0142	NUR IZZATU AZWA BINTI MUSTAPHA KAMAL	3 - SKAW	2.99
13	971015015312	A17KA0143	NUR NAZURAH BINTI ABDUL RAZAK	3 - SKAW	3.39
14	981001107186	A17KA0149	NUR'AISHAH MAISARA BINTI MUHAMMAD YAZID	3 - SKAW	3.52
15	980318135957	A17KA0176	PATRICK TING TOH NGIE	3 - SKAW	3.83

ADVISOR FOR POSTGRADUATE (2019/2020)**Current students**

1	MOHD FARID BIN MOHAMED	781219105435	MKA183013
2	NOOR SUHAIDA BINTI GALIP	840827145630	PKA173106
3	YAP ZHEN SHYONG	930407016479	PKA183001
4	TUAN NURUL FARAZILA BT TUAN MAT	870314035476	PKA193010
5	NUR ZULZIKA BIN MOHAMMAD	950105135139	MKA183008
6	MUHAMMAD HILMI BIN ABD. TALIB	870707015249	MKA163015
7	ZANARIAH BTE JAHYA	880601235146	PA133059
8	NADIRAH BINTI DARUS	901129035086	PA133037
9	NORIZATI BINTI MOHD NORDIN	891114145470	PKA143043
10	TAIWO MARTINS ESAN	201801M10017	PKA173053

Graduated PHD

1	Lim Ming Han
2	Euniza anak Jusli
3	Mohd Hanafi Othman
4	Ain Naadia Mazlan

Graduated Master (By research)

1	Zanariah Jahya
2	Nur'Ain Idris
3	Hamidun mohd noh
4	Aifi Andrice Izhar
5	Kamilah Mohd said

INTERNAL/EXTERNAL EXAMINER

- i. Master Thesis of UNITEN (1 Student)
- ii. Master Thesis of Universiti Malaya (1 Student)
- iii. Master Thesis of UTM (2 Students)
- iv. Phd Thesis of UTM (1 Student)

RESEARCH ACTIVITIES

GUP RESEARCH PROJECT UNDERTAKEN

- 2011-2012 : Project Leader, Effectiveness of rumble strips installation on roadway, budget approved RM130,000, Tier 1
- 2013- 2018 : i) Project Leader, Automated prediction of noise from construction site for green construction. budget approved RM130,000, Tier 1
- ii) Project Member, Development and Performance of Low Noise Concrete Block Pavement. budget approved RM130,000, Tier 1
- iii) Project Leader, Perlie Garnet sound absorption concretet. budget approved RM40,000, Tier 1

FUNDAMENTAL RESEARCH GRANT SCHEME (FRGS FUND)

- 2007-2009 : Project Leader/Project Member
- i) Project Leader, The study of noise from construction sites, Vot 78252, Budget approved RM 100,000.
- ii) Project Member, Framework for life cycle of building construction materials, Vot 78265, Budget approved RM 100,000.
- 2014-2019 : Project Member, Holistic Approach In Capturing Maintainance Related Requirement Using Robust Method For Building DesignR.J130000.7822.4F529 Budget approved RM 87, 000.
- Project Member, Empirical Modeling of Noise Arising due to Transverse Rumble Strip Installation No. R.J130000.7822.4F887 Budget approved RM 115, 500
- Project Member, Relationship between Platoon Dispersion and Traffic Noise under Homogeneous Traffic Condition, R.J130000.7822.4F867, RM 70, 500

MINISTRY OF SCIENCE GRANT SCHEME (Esience)

2009-2011 : Project Leader, Development of construction noise prediction software based upon the stochastic modelling R.J130000.7922.3S366 Budget approved RM 202,200.

EXPLORATORY RESEARCH GRANT SCHEME (ERGS)

2009-2011 : Project Member, Bioremediational Potential Of Ulva (Green) And Gracilaria (Red) Seaweed Species In An Integrated Multi-Trophic Aquaculture System (Imta) R.J130000.7822.4L060 Budget approved RM 80,000.

INNOVATION AND COMMERCIALIZATION GRANT

2015-2016 : Project Member, S-NMS Software (Automated Noise Mapping Prediction Software), Budget approved RM 35,000.

2018-19 : Project Member, Assessment Of Comfort Factors In Malaysia School Buildings, Q.J130000.2751.03K39, RM 20,000

CSR project

2017 : Project Member, Menaiktaraf Fasiliti Asas bagi Meningkatkan Kehidupan dan Ekonomi Asnaf, RM 11,986.

2019 : Project Member, Project Simenfero di Sekolah kebangsaan kampong Pasir, Skudai, Johor Bahru

2019-2020 : Project Leader, Kajian menangani bunyi bising dalam kelas di Sekolah kebangsaan kampong Pasir, Skudai, Johor Bahru (RM 15,000)

PATENT FILED/DISCLOSURE

- a. **Zaiton Haron**, Probability approach for prediction of construction noise(PI 2008 2513)
- b. **Zaiton Haron**, Khairulzan Yahya, Acoustic modelling method using Markov Approach (PI 2010 001679)
- c. **Zaiton Haron**, Khairulzan Yahya, Method for predicting construction site noise(PI 2010 0033)

PUBLICATIONS

a) JOURNAL PAPERS – ISI INDEX

- 1) **Haron, Z.**, Othman, M. H., Yahya, K., Hainin, M. R., Ambak, K. & Darus, N. Exterior Noise Due to Interaction of Tire-Thermoplastic Transverse Rumble Strips, Archive of Acoustics, The Journal of Institute of Fundamental Technological of Polish Academy of Sciences, 2017, 43(3), DOI: <https://doi.org/10.1515/aoa-2017-0047> (ISI index) (IF=0.816)
- 2) Lim Ming Han ,**Zaiton Haron** ,Khairulzan Yahya ,Suhaimi Abu Bakar ,Mohamad Ngasri Dimon, A Stochastic Simulation Framework for the Prediction of Strategic Noise Mapping and Occupational Noise Exposure Using the Random Walk Approach, Plos One, April 15, 2015, DOI: 10.1371/journal.pone.012066 (IF: 3.534)
- 3) Hajir Satih Abbas, Sohaimi Abu Bakar, Mohammad Ahmadi , **Zaiton Haron** Experimental Studies On Corrugated Steel-Concrete Composite Slab, [Gradevinar](#), April 2015, [Vol.67 \(03\)](#). (IF:0.216)
- 4) **Haron Z.**, Othman M. H., Yahya K., Hainin M.R. and Yaacob H. The Effect of Application of Transverse Rumble Strips on Traffic Noise Levels, Research Journal in Chemistry and Environment, 2013, 17(2).(IF=0.623)
- 5) **Zaiton Haron**, D.J. Oldham, Khairulzan Yahya, Muhd Zaimi Abd Majid, Mushairry Mustafa, Nur' Ain Idris, Development of design charts for the prediction of noise from construction activities, Adv. Sci. Lett. 2012,14, 616-620. (IF=1.23)
- 6) Mushairry Mustaffar, Rozana Zakaria, Radzuan Sa'ari, **Zaiton Haron**, and Md. Rajuna Ahmad Shakri , The Application of Convergent Multi-Image Correlation in Determining Displacements in Beams, Adv. Sci. Lett. 2012, 13, 720-722.(IF=1.23)
- 7) Bala Muhammad, Mohammad Ismail, **Zaiton Haron**, and Abdirahman Ali Yussuf, Elastomeric Effect of Natural Rubber Latex on Compressive Strength of Concrete at High Temperatures, J. Mater. Civ. Eng. 2011, 23, 1697.(IF=0.733)
- 8) **Z. Haron**, and, K.Yahya, Probability Approach for Prediction of Construction Site Noise, Journal of Asian Architecture and Building Engineering, 2009, 12(2).(IF=0.2)

- 9) MH Othman, **Z Haron**, LM Hee, K Yahya, MR Hainin, MS Leong, Transverse Rumble Strips Thickness Design For Road Users' Comfort, INTERNATIONAL JOURNAL OF ADVANCED AND APPLIED SCIENCES, 2 (12), 40-45

b) JOURNAL PAPERS/bookchapter - SCOPUS INDEX

1. **Z. Haron**, N. Darus, K. Yahya, N. Mashros, Z. Jahya, M. A. Hezmi, H. Halim, M. H. Othman, The effect of vehicle weight on the sound produced by transverse rumble strips, Journal of Mechanical Engineering and Sciences, Volume 13, Issue 2, pp. 5031-5047, June 2019
2. N. Darus, **Z. Haron**, K. Yahya, M.H. Abd Halil, W.M.A. Norudin, M.H. Othman, and M.A. Hezmi, 2018, Impulsivity of Noise due to Single Lightweight Vehicles Transit on Transverse Rumble Strip E3S Web of Conferences 34, 02026
3. Noor Suhaida Galip, **Zaiton Haron**, Roslli Noor Mohamad, Khairulzan Yahya, Zanariah Jahya, Muhammad Azril Hezmi, A Framework for Green Concrete Noise Barrier Materials using Palm Oil Clinker, IOP Conf. Series: Journal of Physics: Conf. Series 1262
4. **Esan Martins Taiwo, Khairulzan Yahya and Zaiton Haron**, Potential of Using Natural Fiber for Building Acoustic Absorber: A Review, IOP Conf. Series: Journal of Physics: Conf. Series 1262
5. Herni Halim, Nur Hanani Farhah Mohd Hilmi, Mohamad Firdaus Mahamad Yusob, Nur Fatin Najiyah Hamid, Nur Atiqah Mohamad Nor, Nur Sabahiah Abdul Sukor, Noorhazlinda Abdul Rahman, **Zaiton Haron**, Faridah Waha, 2019, Comparison Of Road Traffic Noise Near High, Medium And Low Density Residential Areas In Nibong Tebal And Juru, Penang, International Journal Of Integrated Engineering 11(1) 087–098
6. Herni Halim, Nur Atiqah Mohamad Nor, Mohamad Firdaus Mahamad Yusob, Nur Hanani Farhah Mohd Hilmi, Nur Fatin Najiyah Hamid, Nur Sabahiah Abdul Sukor, Noorhazlinda Abdul Rahman, **Zaiton Haron** and Faridah Wahab, Comparison of Road Traffic Noise at Residential Areas in Klang Valley, Selangor and Nibong Tebal, Penang International, Journal Of Integrated Engineering 11(1) 120-130
7. Herni Halim, Nur Fatin Najiyah Hamid, Mohamad Firdaus Mahamad Yusob, Nur Atiqah Mohamad Nor, Nur Hanani Farhah Mohd Hilmi, Nur Sabahiah Abdul Sukor, Noorhazlinda Abdul Rahman, **Zaiton Haron** and Faridah Wahab, Road Traffic Noise Levels at Different Types of Residential Areas in Nibong Tebal, Penang Journal Of Integrated Engineering 11(1) 101-112
8. ARA Hamid, MRA Noor Azmi, E Aminudin, RP Jaya, R Zakaria, AMM Zawawi, K Yahya, **Z Haron**, R Yunus, CC Saar, Causes of fatal construction accidents in Malaysia, 2019, IOP Conference Series: Earth and Environmental Science 220 (1), 012044
9. ARA Hamid, ARA Razak, AM Yusof, RP Jaya, R Zakaria, E Aminudin, MASK Anuar, K Yahya, **Z Haron**, R Yunus, IA Rashid, 2019, Noncompliance of the occupational safety and health legislation in the Malaysian construction industry, IOP Conference Series: Earth and Environmental Science 220 (1), 012043

10. **Z Haron**, J Jamaludin, N Darus, K Yahya, Z Jahya, N Mashros, MA Hezmi, A case study of acoustic efficiency of existing noise barrier in reducing road traffic noise in school area, 2019, IOP Conference Series: Earth and Environmental Science 220 (1), 012046
11. **Z Haron**, N Darus, K Yahya, H Halim, AN Mazlan, MA Hezmi, Z Jahya, Review on Traffic Noise Problem in Malaysia, 2019, IOP Conference Series: Earth and Environmental Science 220 (1), 012015
12. Abdul Rahim Abdul Hamid, Ridzuan Azhari, Rozana Zakaria, Eeydzah Aminudin, Ramadhansyah Putra Jaya, Logeswaran Nagarajan, Khairulzan Yahya, **Zaiton Haron**, Riduan Yunus, Causes of crane accidents at construction sites in Malaysia, 2019, IOP Conference Series: Earth and Environmental Science 220 (1), 012028
13. EM Taiwo, KB Yahya, **Z Haron**, Utilisation of building information modelling for indoor environmental quality assessment–A review, 2019, IOP Conference Series: Earth and Environmental Science 220 (1), 012051
14. H Halim, MFM Yusob, R Abdullah, Mohd Jailani Mohd Nor, NA Rahman, NSA Sukor, **Z Haron**, Noise barrier as an option to reduce road traffic noise from highways in Klang valley, Malaysia, 2018, AIP Conference Proceedings 2030 (1), 020276
15. Nur Hazliyana Abdul Mutalib, Nordiana Mashros, Eeydzah Aminudin, Rozana Zakaria, **Zaiton Haron**, Muhammad Hilmi Abd Talib, Abdul Rahim Abdul Hamid, Disturbance of Traffic Noise: Evaluation on the Effects and Management on Road Corridors, 2018, IOP Conference Series: Earth and Environmental Science 143 (1), 012049
16. Nordiana Mashros, SittiAsmah Hassan, Yaacob Haryati, Mohd Shahrir Amin Ahmad, Ismail Samat, Othman Che Puan, Norhidayah Abdul Hassan, Nor Zurairahetty Mohd Yunus, **Zaiton Haron**, Road traffic accidents on Senai-Desaru expressway, MATEC Web of Conferences 250, 02002
17. **Zaiton Haron**, Euniza Jusli , Hasanan Md Nor, Ramadhansyah Putra Jaya , Haryati Yaacob, Khairulzan Yahya, Azman Mohamad, Musli Nizam Yahya, Prediction of Sound Absorption Coefficient for Double Layer Rubberised Concrete Blocks, International Journal of Engineering & Technology 7 (2.29), 704-710
18. Zanariah Jahya, **Zaiton Haron**, Musli Nizam Yahya, Dianah Mazlan, Nadirah Darus, Khairulzan Yahya, Mohd Hanifi Othman, Preliminary investigation of acoustical properties of concrete containing oil palm shell as an aggregate replacement, Proceeding The International Conference on Civil and Environmental Engineering 2018, E3S Web of Conferences 34, 01015
19. Ain Naadia Mazlan, Khairulzan Yahya, **Zaiton Haron**, Edrin Nazri Abd Rasib, Mohd Nizam Jamaluddin, Nik Amsharija Mohamed, Characteristic of Noise-induced Hearing Loss Among Workers in Construction Proceeding The International Conference on Civil and Environmental Engineering , E3S Web of Conferences 34, 02025
20. SZU Gharsheen, **Z Haron**, K Yahya, N Darus, MA Hezmi, AN Mazlan, Impact of car free day on foyer building environment, MATEC Web of Conferences 250, 06008

21. Nadirah Darus, **Zaiton Haron**, Khairulzan Yahya, Muhammad Habab Abd Halil, Wan Mohammad Asyraf Norudin, Mohd Hanifi Othman, Muhammad Azril Hezmi . Impulsivity Of Noise Due To Single Lightweight Vehicles Transit On Transverse Rumble Strip. Proceeding The International Conference on Civil and Environmental Engineering, 2018, E3S Web of Conferences 34, 02026
22. **Zaiton Haron**, Nadirah Darus, Khairulzan Yahya, Wan Mohammad Asyraf Norudin, Muhammad Habab Abd Halil, Muhammad Azril Hezmi, Rosiah Abu Samah, Abdul Hameed Abdul Mutalif, Mohd Hanifi Othman. Noise Annoyance Produced by Commercial Vehicles Transit on Rumble Strips. Proceeding The International Conference on Civil and Environmental Engineering, 2018, E3S Web of Conferences 34, 02023
23. Sulaiman Faiznur Syahidah, Darus Nadirah, Mashros Nordiana, **Haron Zaiton**, and Yahya Khairulzan. Traffic Noise Assessment at Residential Areas in Skudai, Johor. Proceeding The International Conference on Civil and Environmental Engineering, 2018, E3S Web of Conferences 34, 02024
24. P Y Lim, K Yahya, E Aminudin, R Zakaria, **Z Haron**, R Mohamad Zin and A A H Redzuan. Carbon footprint of construction using industrialised building system, IOP Conference Series: Materials Science and Engineering, Volume 271, conference 1, 2017
25. **Haron, Z.**, Othman, M. H., Yahya, K., Hainin, M. R., Ambak, K. & Darus, N. Exterior Noise Due to Interaction of Tire-Thermoplastic Transverse Rumble Strips, 5 Apr 2017 In : MATEC Web of Conferences. 103, 07016
26. Firmawan, F., Othman, F., Yahya, K. & **Haron, Z.** The green construction site index (GCSI): A quantitative tool used to assess an ongoing project to meet the green construction concept, International Journal of Technology. 2016 7, 4, p. 530-543 14 p.
27. **Zaiton Haron**, Nadirah Darus, Lim Ming Han, Zanariah Jahya, Mohamad Fauzi Abdul Hamid, Khairulzan Yahya, Yee Ling Lee, Poi Ngian Shek, A Preliminary Study Of Occupational Noise Exposure Among Leaf Blower And Grass Cutter Workers In Public University, Jurnal Teknologi, 2015, Vol 77(16).
28. **Zaiton Haron**, Lim Ming Han, Nadirah Darus, Yee Ling Lee, Zanariah Jahya, Mohamad Fauzi Abdul Hamid, Khairulzan Yahya, Poi Ngian Shek, A Preliminary Study Of Environmental Noise In Public University Jurnal Teknologi, 2015, Vol 77(16).
29. Nadirah Darus, **Zaiton Haron**, Siti Nadia Mohd Bakhori, Lim Ming Han, Zanariah Jahya, Mohamad Fauzi Abdul Hamid, Construction Noise Annoyance among the Public Residents, Jurnal Teknologi, 2015, Vol 74(4).
30. Lim Ming Han, **Zaiton Haron**, Zanariah Jahya, Nadirah Darus, Mohamad Fauzi Abdul Hamid, A Prototyping Model of Intelligent Hearing Protection Device, Jurnal Teknologi, 2015, Vol 74(4).
31. Euniza Jusli, Hasanan Md. Nor, Ramadhansyah Putra Jaya, **Zaiton Haron**, Musli Nizam Yahya, M. Azman, Lee Kuan Lim, Low Noise and Properties of Double Layer Concrete Paving Blocks, ICGSCE 2014, pp 291-299

32. Euniza Jusli, Hasanan Md Nor, Ramadhansyah Putra Jaya, **Zaiton Haron**, Strength and Microstructure Properties of Double Layered Concrete Paving Blocks Containing Waste Tyre Rubber Granules, *Jurnal teknologi*, 2015, Vol 73(4).
33. Mohd Hanifi Othman, **Zaiton Haron**, Mohd Rosli Hainin, Khairulzan Yahya, Haryati Yaacob, Mohd Erwan Sanik, *Malaysian Transverse Rumble Strips: A Review and Recommendations for Practice*, 2015, Vol 73(4).
34. **Z. Haron**, M.Z. Abidin, M.H. Lim, K. Yahya, Z. Jahya, Said K. Mohd, A.A. Saim; Noise exposure among machine operators on construction sites in South Johor, Malaysia, *Advanced Materials Research*. 2014;838-841:2507-2512
35. E Jusli, HM Nor, RP Jaya, **Z Haron**, Chemical Properties of Waste Tyre Rubber Granules, *Advanced Materials Research*, 2014, 911: 77.
36. **Z. Haron**, K. Yahya, Z. Jahya, Prediction of noise pollution from construction sites at the planning stage using simple prediction charts, *Energy Education Science & Technology, Part: A Energy Science and Research*, 2012,29(2), 989-1002.
37. Lavania, B, Akira, K, Azman, S, Mohd Said, I, **Haron Z**, Gracilaria Edulis As Phytoremediation Agent To Improve Shrimp Pond Water Quality, *Journal of Sustainability Science and Management*, 2012, 2:29, 254-256.
38. Mohd Hanifi Othman, **Zaiton Haron**, Mohd Rosli Hainin, Mohd Badruddin Mohd Yusof, KhairulzanYahya, Haryati Yaacob and Shamila Azman, Evaluation of External Noise Produced by Transverse Rumble Strips on Rural Roadways, *Advanced Material Research*, 2012, 446-449.
39. **Zaiton Haron**, David Oldham, A Markovian Approach to the Modeling of Sound Propagation in Urban Streets, *JurnalTeknologi*, 2010,52,: 61–75.
40. **Z.Haron** and K. Yahya, Monte Carlo analysis for prediction of noise from construction sites , *International journal of Construction for Developing Countries*, 2009,14(1).
41. **Z. Haron** and D.J. Oldham, A Markovian Approach to the Prediction of Noise Propagation, *The Proceeding of The Thirteenth International Congress on Sound and Vibration*, Vienna, Austria

c) JOURNAL PAPERS - INTERNATIONAL JOURNAL

- 1) Jusli, Euniza; Nor, Hasanan Md; Putra Jaya, Ramadhansyah; **Haron, Zaiton**; Mohamed, Azman, A Review of Double Layer Rubberized Concrete Paving Blocks *Journal of Engineering Research & Technology* . Jun2015, Vol. 2 Issue 2, p136-140. 5p
- 2) **Zaiton Haron**, Shahrin Mohammad, Abdul Rahman Mohd Sam, Mushairry Mustaffar, Jamaludin Mohd Yatim, The Implementation of an Open-Ended Experiment in The Civil Engineering Laboratory, *Procedia - Social and Behavioral Sciences*, 2013,10:548–559.

- 3) Supiah Shamsudin, Muhammad Adam Omar, Mohd Azizi Zakaria, Azmi Ab Rahman, **Zaiton Haron**, Zulkiflee Ibrahim, [Sediment Phosphorus Loadings Uncertainty Using Fuzzy-Logic Indetention Pond At Southern Malaysia](#), Indian Stream Research Journal, 2013, 3(3).
- 4) Supiah Shamsudin, Azmi Ab Rahman, **Zaiton Haron**, Lat Da A, P Ai Nam, [Water Level Evaluation at Southern Malaysia Reservoir using Fuzzy Composite Programming](#), International Journal of Engineering and Advanced Technology 2013, 2(4).
- 5) Supiah Shamsudin, Azmi Ab Rahman, **Zaiton Haron**, Anieziatun Aqmal Puteh Ahmad, [Detention Pond Phosphorus Loadings Uncertainty Using Fuzzy Logic](#), International Journal of Soft Computing and Engineering , 2013, 3(2).
- 6) Supiah Bt Shamsudin, Azmi Ab Rahman, **Zaito Haron**, Salisu Danazumi, SitiHawa Bt Jalil, MohdAzizi B Zakaria, [Rainwater Harvesting Design Uncertainty Using Fuzzy Logic](#), International Journal of Soft Computing and Engineering, 2013, 3(2).
- 7) Mohd Rosli Hainin, Ammar Ali Abdulridha, Haryati Yaacob, **Zaiton Haron** & NurIzzi Md. Yusoff, Fatigue Life of Malaysian Hot Mix Asphalt Mixtures, Malaysian Journal of Civil Engineering, 2013, 25(1):93- 104.
- 8) **Zaiton Haron**, Mohd Hanifi Othman, Khairulzan Yahya, Haryati Yaacob, Mohd. RosliHainin, Mohd Badruddin Mohd Yusof, Noise Produced By Transverse Rumble Strips: A Case Study On. A Rural Roadways, IOSR Journal of Mechanical and Civil Engineering (IOSRJMCE) 2012, 1(5), 12-16.
- 9) **Zaiton Haron**, Hamidun Mohd Noh, Khairulzan Yahya, Wahid Omar, Zaimi Abd Majid, Assessing noise emission levels from earthwork construction equipment, Malaysia Journal of Civil Engineering, 2012, 24(1).
- 10) **Zaiton Haron**, et al. Modelling of sound propagation in urban streets containing trees using markovian techniques. Malaysia Journal of Civil Engineering, 2009, (21)(1).
- 11) **Z. Haron** , D.J. Oldham, K. Yahya, and R Zakaria, A probabilistic approach for modelling of noise from construction site for sustainable environment, Malaysia Journal of Civil Engineering, 2008, 20(2).
- 12) **Zaiton Haron**, Oldham, David, Khairulzan Yahya, and Rozana Zakaria, [Application of A 2D Markavian Approach To The Modelling of Sound Propagation In Streets](#). Malaysian Journal of Civil Engineering, 2008, 20 (2). 175-187
- 13) **Z. Haron** and D.J. Oldham, Stochastic Modelling in Environmental and Building Acoustics, Journal of Recent Research Development, Sound and Vibration, 2004, 2213-234,.

d) CONFERENCE PAPERS

- 1) Zanariah Jahya, **Zaiton Haron** and Mardhiah Zainal Abidin. Noise Level From A Construction Site: Measurement Vs. Prediction, 4th International Graduate Conference on

Engineering Science & Humanity 2013 (IGCESH2013) , 16- 17 April 2013, UTM Johor Bahru, Malaysia

- 2) Mardhiah Zainal Abidin, **Zaiton Haron**, ZanariahJahya, KamilahMohd Said and A. Aziz Saim. Determination of Occupational Noise Exposure and Use of Hearing Protection among Construction Workers, 4th International Graduate Conference on Engineering Science & Humanity 2013 (IGCESH2013) , 16- 17 April 2013, UTM Johor Bahru, Malaysia
- 3) Kamilah Mohd Said, **Zaiton Haron**, Mardhiah Zainal Abidin and A. Aziz Saim. Noise Exposure Level of Roadway Construction Worker, 4th International Graduate Conference on Engineering Science & Humanity 2013 (IGCESH2013)
- 4) **Zaiton Haron**, Nur'ain Idris ZanariahJahyaKhairulzanYahya, MushairryMustaffar, Automated prediction of noise from construction sites, APSEC-ICCER 2012 conference, Surabaya, 2-4 Oct 2012
- 5) **Zaiton Haron**, ZanariahJahya, Nur'ain Idris,KhairulzanYahya, MushairryMustaffar, Simulation Vs. Measurement: Distribution Of Noise Level From A Construction Site,The 2nd Regional Conference on Applied and Engineering Mathematics (RCAEM-II 2012), Penang, 30-31 May 2012.
- 6) Mardhiah Zainal Abidin, **Zaiton Haron**, A. Aziz Saim, Assessment of Noise Exposure on Technical Staff in Civil Engineering Laboratory, Proceeding of International Conference on Civil and Environmental Engineering Sustainability. (*IconCEES 2012*), Johor Bahru, Malaysia, 3-5 April.
- 7) **Zaiton Haron**, D.J. Oldham, Khairulzan Yahya, Muhd Zaimi Abd Majid, Mushairry Mustafa, Nur' Ain Idris, Development of design charts for the prediction of noise from construction activities, International Symposium on Mechanical Science and Technology, December 20-21, 2011, Guangzhou, China
- 8) Mohd Hanifi Othman, **Zaiton Haron**, Mohd Rosli Hainin, Mohd Badruddin Mohd Yusof, Khairulzan Yahya, Haryati Yaacob and Shamila Azman, Noise Produced by Transverse Pavement Markings on Roadways in Pontian area, Johor, Proceeding SEPKA, UniversitiTeknologi Malaysia, Malaysia, 13-15 Oktober 2011.
- 9) Mohd Hanifi Othman, **Zaiton Haron**, Mohd Rosli Hainin, Mohd Badruddin Mohd Yusof, Khairulzan Yahya, Haryati Yaacob and Shamila Azman, Transverse Pavement Markings: Application and Problems , Proceeding SEPKA, UniversitiTeknologi Malaysia, Malaysia, 13- 15 Oktober 2011
- 10) Nur'ain Idris, **Zaiton Haron**, Khairulzan Yahya, Hamidun Mohd Noh, Mushairry Mustafar, Simulation of construction noise using Monte Carlo Approach, Proceeding SEPKA, UniversitiTeknologi Malaysia, Malaysia, 13-15 Oktober 2011.
- 11) Hamidun Mohd Noh, **Zaiton Haron**, KhairulzanYahya, Supiah Shamsudin and Wahid Omar, 'Noise Emission Levels of Earthwork Construction Equipment, Proceeding SEPKA, UniversitiTeknologi Malaysia, Malaysia, 13-15 Oktober 2011

- 12) Khairul Aizad Abd Razak, Abdul Rahman Mohd Sam, **Zaiton Haron**, Mohamad Ngasri Dimon, A review on concrete as sound absorption material in enclosed space, Proceeding SEPKA, Universiti Teknologi Malaysia, Malaysia, 13-15 Oktober 2011
- 13) Aifi A I Iswandi , Khairulzan Yahya, **Zaiton Haron**, Mardhiah Zainal Abidin, Externalities from Noise Pollution at Construction Site, Proceeding SEPKA, Universiti Teknologi Malaysia, Malaysia, 13-15 Oktober 2011
- 14) Mohd Hanifi Othman, **Zaiton Haron**, Khairulzan Yahya, Haryati Yaacob ,Shamila Azman, Centerline rumble strips: a review of application and effectiveness, accepted for presentation, International Transport Research Conference, Penang, Malaysia, 12-14 April 2011.
- 15) Mohd Hanifi Othman, **Zaiton Haron**, Khairulzan Yahya, Haryati Yaacob, Shamila Azman, Shoulder rumble strips: a review of application and effectiveness, accepted for presentation, International Transport Research Conference, Penang, Malaysia, 12-14 April 2011
- 16) Hamidon Mohd Noh, **Zaiton Haron** & Khairulzan Yahya, On Site Sound Pressure Level Measurement of Excavators , Proceedings of EnCon2010, 3rd Engineering Conference on Advancement in Mechanical and Manufacturing for Sustainable Environment, April 14-16, 2010, Kuching, Sarawak, Malaysia
- 17) Nur'ain IDRIS, **Zaiton HIRON**, Khairulzan YAHYA and Hamidun MOHD NOH, Construction Noise Prediction using Stochastic Model, Proceedings of EnCon2010, 3rd Engineering Conference on Advancement in Mechanical and Manufacturing for Sustainable Environment, April 14-16, 2010, Kuching, Sarawak, Malaysia
- 18) M.H. Othman, **Z. Haron**, K. Yahya, H. Yaacob, M. Abd Latif, Transverse Rumble Strips: A Review of Noise Problems, Proceeding of Highway Engineering, 8th International Conference on Geotechnical and Transportation Engineering (GEOTROPIKA 2010), Kota Kinabalu, Sabah, 1 – 3 Dec. 2010.
- 19) M.H. Othman, **Z. Haron**, K. Yahya, H. Yaacob , M. Abd Latif, Transverse Rumble Strips Application in Malaysia, Proceeding of Highway Engineering, 8th International Conference on Geotechnical and Transportation Engineering (GEOTROPIKA 2010), Kota Kinabalu, Sabah, 1 – 3 Dec. 2010.
- 20) A.L.Salleh, **Z. Haron**, R. Zakaria, Sustainable elements for Concrete Floor Materials, Proceeding of 2010 International Conference on Construction & Real Estate Management, Brisbane Australia, 1-3 December, 2010
- 21) Aifi Andrice Izhar Iswandi, Khairulzan Yahya and **Zaiton Haron**, Estimating Environment Externalities – Overview of Method and Application, The 4th World Engineering Congress 2010 : Engineering & Technology for Global Stability and Security, Kuching, Sarawak, 2 – 5 Aug. 2010.

- 22) Hamidon Mohd Noh, **Zaiton Haron** & Khairulzan Yahya, Development of noise emission database from construction site equipments for construction noise prediction, presented at APSEC-EACEF 2009 conference, Langkawi, August 2009,
- 23) H.M.Noh, **Z. Haron** and M.A. Shafii and, Predicting of Noise from Construction Sites: Deterministic vs Stochastic Models: Review, Proceeding of International Conference on Science and Technology, Penang, December 2008.
- 24) **Z. Haron** and D.J Oldham, A Markovian technique for predicting noise propagation in a street containing obstructions, 19th international congress on Acoustic (ICA), Madrid, Spain, Sept 2007, (Regarded as outstanding and among best work presented, has been invited to write in Acta Acustica united with Acustica).
- 25) **Z. Haron** and D.J. Oldham, Markovian model for noise prediction in street containing trees, International conference of sustainable building South East Asia (SBEA07), 5-7 Nov, 2007.
- 26) **Z. Haron** and D.J. Oldham, A Markovian Approach to the Prediction of Noise Propagation, in The Proceeding of The Thirteenth International Congress on Sound and Vibration, Vienna, Austria, July 2-6, 2006.
- 27) **Z. Haron** and D.J. Oldham, Stochastic modelling for prediction noise from construction site, Autumn Conference, Proceeding of Institute of Acoustic, Oxford, October 2005.
- 28) **Z. Haron** and D.J. Oldham, The Application of Stochastic Modelling to the Prediction of Noise from Open Sites Activities, Proceeding Managing noise and uncertainties, Le Mans, 2005

e) **BOOK/BOOKCHAPTERS**

BOOKS:

- [1] **Zaiton Haron**, Khairulzan Yahya And Nadirah Darus, Construction Noise: Issues, Measurements And Predictions (2019), Penerbit UTM
- [2] **Zaiton Haron**, Open-ended Laboratory: concrete mix design experiment (2013), Faculty of Civil Engineering, UTM:ISBN: 978-967-0194-20-2
- [3] Mohamed Abd Kader, Warid Hussin, Sallehudin Radin Sumadi, Abdul Rahman Mohd Sam, **Zaiton Haron**, Introduction to civil engineering materials (2009)– McGrawHill

BOOKCHAPTER

- i. Euniza Jusli , Hasanan Md. Nor, Ramadhansyah Putra Jaya , **Zaiton Haron**, Mastura Bujang, Wan Nur Aifa Wan Azahar, 2019, Waste Tyre Rubber Application in Semi-Rigid and Flexible Pavement, HANDBOOK OF RESEARCH ON RESOURCE MANAGEMENT FOR POLLUTION AND WASTE TREATMENT, IGI GLOBAL.
- ii. Nur Muizzah Nawawi, **Zaiton Haron**, Saiful Jumali, Asmawati Che Hasan, Occupational Noise Exposure of Construction Workers at Construction Sites in Malaysia, In book:

Regional Conference on Science, Technology and Social Sciences (RCSTSS 2016),
SPRINGER

- iii. **Zaiton Haron**, Nadirah Darus, Mohd Hanifi Othman, and Nazli Che Din, A Chart For Determining The Location Of Rumble Strips Installation, INNOVATIVE COMPUTATIONAL METHODS OF ACOUSTICS PRAMETERS, 2017, Penerbit UTM
- iv. **Zaiton Haron**, Mohd Hanifi Othman, Khairulzan Yahya and Nadirah Darus, Community Perception On Noise Induced By Transverse Rumble Strips Installation, COMMUNITY PERCEPTIONS ON NOISE, 2017, Penerbit UTM
- v. Lim Ming Han, **Zaiton Haron**, Zanariah Jahya, and Nazli Che Din, Random Walks Analysis And Strategic Noise Mapping Development , INNOVATIVE COMPUTATIONAL METHODS OF ACOUSTICS PARAMETERS, 2017, Penerbit UTM
- vi. Lim Ming Han, Lee Yee Ling, **Zaiton Haron** and Ain Naadia Mazlan, Perception Of Industrial Workers On Noise Hearing Device, COUMMUNITY PERCEPTIONS ON NOISE, 2017, Penerbit UTM
- vii. **Zaiton Binti Haron**, Hamidun Bin Mohd Noh, Khairulzan Bin Yahya, Wahid Bin Omar, Low Wen Pei, Evaluation of Noise Emission Level of Excavators Used in UTM, Malaysia and its effect on noise prediction, CONTEMPORARY ISSUES IN CONSTRUCTION, Penerbit UTM, 2012
- viii. Khairulzan Bin Yahya, **Zaiton Binti Haron**, Siti Nur Zulaikha Binti Mohd Rasid , The trend of Life Cycle Assessment (LCA) Research in Malaysia Construction Industry, CONTEMPORARY ISSUES IN CONSTRUCTION, Penerbit UTM, 2012
- ix. **Zaiton Binti Haron**, Mohd Hanifi Bin Othman, Khairulzan Bin Yahya, Haryati Binti Yaacob, Shamila Binti Azman, Mohd. Rosli Bin Hainin, Hafizul Bin Derahman , Noise Produced by Transverse Rumble Strips on Roadway: A Case Study at Kg Batu 30 Pontian, Johor, CONTEMPORARY ISSUES IN CONSTRUCTION, Penerbit UTM, 2012