

## EMMA MARINIE AHMAD ZAWAWI (Ts, Dr)

Associate Professor, Dean (Academic and International) (KAB)

Centre of Studies for Construction  
College of Built Environment  
Universiti Teknologi MARA,  
40450 Shah Alam,  
Selangor, Malaysia.

Research Interest Group  
Research Nexus UiTM (ReNeU)

+603-5544 351 / +6019-272 1076  
emmamarinie@uitm.edu.my



### Areas of Expertise

Building Maintenance, Building Performance, Environment, Construction Management

<https://expert.uitm.edu.my/expert.php?#>

<https://prisma.uitm.edu.my/prisma/?doit=DirectoryStafByIdDetail&staffid=Vmtaa2QxTnJNWEZXVkJaT1IYcEZNbFpXVWs1TIZUbFNVRIF3UFE9PQ&dsff=Vmtaa2QxTnJNWEZXVkJaT1IYcEZNbFpXVWs1TIZUbFNVRIF3UFE9PQ>

<https://publons.com/researcher/3739088/emma-marinie-ahmad-zawawi/>

<https://www.scopus.com/authid/detail.uri?authorId=24068076300>

[https://www.researchgate.net/profile/Emma\\_Zawawi/research](https://www.researchgate.net/profile/Emma_Zawawi/research)

[https://scholar.google.com/citations?hl=en&user=iZxWudQAAAAJ&view\\_op=list\\_works&sortby=pubdate](https://scholar.google.com/citations?hl=en&user=iZxWudQAAAAJ&view_op=list_works&sortby=pubdate)

### Personal Information

Emma Marinie Ahmad Zawawi,  
Centre of Studies for Construction  
Research Interest Group: Tropical Building Performance (TROB-P)

### Academic Qualifications

PhD 2006, The University of Manchester, UK  
Master in Building Technology, 2000, University of Science Malaysia  
Degree of Science in Housing, Building and Planning, 2019, University of Science Malaysia  
Certificate in Building Services Engineering, Politeknik Sultan Abdul Halim Mua'dzam Shah

## Professional Members

- [1] Royal Institution of Surveyors Malaysia (RISM), Graduate Member, since 2014
- [2] Malaysia Board of Technologies, Member, since 2018

## Teaching and Learning

- [1] Undergraduate Program
  - BCM414 Construction Technology,
  - CMA603 Research Methodology,
  - BCM544 Construction Technology IV,
  - CMA543 Sustainability and Large Scale Construction.
- [2] Postgraduate Program
  - ICP853 Research Methodology and Methods

## Student Supervision

### PhD

- [1] Wang Suqi (2022611346), Near-Zero Energy Consumption Transformation Strategy Of Rural Residential Buildings In Huai'an Area, Ongoing, **Main Supervisor**
- [2] Akmal binti Shukor (2022781963), Remote Working During Pandemic: An Investigation of Physical Workplace Environment Among Working Mothers in Klang Valley, PhD, Ongoing, **Main Supervisor**
- [3] Azlan Ariff bin Ali Ariff (2019454208), Green Roof as permeable public realm in Malaysian Urban Fabric, PhD, Ongoing, **Main Supervisor**
- [4] Khairil Amri Kamaruzzaman (2020196015), Sustainability of IBS for future Construction in Malaysia, PhD, Ongoing, **Main Supervisor**
- [5] Mohd Imran bin Abu Samah (2019770217), A Framework of Work Place Innovation Towards Facilities Management Enhancing Organization Productivity, PhD, Ongoing, Co-Supervisor
- [6] Nur Aqlima Binti Ramli (2016694262), Adapting Green Maintenance Concept for Managing Facilities in Hospital, PhD, **(Completed 2023), Main Supervisor**
- [7] Faza Ehsan binti Zaidi (2015377389), Strategic leadership for successful strategic performance in construction firm, PhD, Ongoing, **Main Supervisor**
- [8] Abdal Rahim Emjahed (2011744933), Integrated Design Process Model for Green Design Building Refurbishment Projects, PhD, **(Completed 2019), Main Supervisor.**

### MSc (by research)

- [1] Wan Hasmirah Wan Ibrahim (2015719983), Investigation of IAQ in residential due to quarry activities, MSc, **(Completed (2020), Main Supervisor**
- [2] Nor Syazwani Yusof (2014565447), Adaptation of Post Disaster Waste Management Plan into Waste Management Guidelines in Malaysia, MSc, **(Completed (2018), Main Supervisor**
- [3] Mohd Farhan Mohd Mukelas (2011226576), The development of framework in software implementation to enhance contractor's construction cost estimate, MSc, **(Completed (2016), Main Supervisor**

## MSc (by coursework)

### Ongoing

- [1] Aina Fatra binti Zamri, The Effectiveness of Qlassic for Quality Improvement in Residential Project in Malaysia (AP776) 2022

### Completed

- [1] Muhammad Amir Syahir bin Roslan, The Potential of Sustainable Hybrid Technology of Building Façade and Photovoltaics as building Integrated Photovoltaics (BIPV) Application in Malaysia and Future Development (AP776) 2021
- [2] Wan Abdul Somad Ismail, Mitigation Plan for Renovation Works in Private Healthcare Facilities Focusing on Critical Area (AP776) 2021
- [3] Nur Akmal bt Shukor, Employee Preference Towards Internal Office Design (AP776) 2019
- [4] Nur Amirah binti Johari, The Impact of Effective Communication Towards Organisational Productivity in Government Sector (AP776) 2019
- [5] Nur Farahin Yusaini Hisham, Sustainable Development in Malaysia Construction Industry: The Perception of Develpers (AP776) 2018
- [6] Nur Marjan Suhaimi, Key Success factors of Green Development in Malaysia: Perspective of Developers (AP776) 2018
- [7] Mohd Aidil Irwan Sulaiman, The Cause and Effcet of Delay in Construction Projects in Klang Valley (AP776) 2018
- [8] Nor Siayidah Abd Ghani, Qlassic: The Success Factors (Ap776) 2018
- [9] Azreen Niza Razali, Mitigation Plan for Controlling Factors and Effects of Time Overrun in Large Construction Projects by Project Delivery Partners (AP776) 2018
- [10] Nur afifah Sanusi, A Study in the Building Maintenance Practices in Students Hostel at Public Universities (AP779) 2016
- [11] Noor Suhaiza Zainal, Barrier in Implementing IBS Towards Sustainable Construction (AP776) 2012
- [12] Nor Afifah Sanusi, Corrective Maintenance Management for Students's Accomodations facilities of public universities (AP779) 2015
- [13] Mohd Aidil Irwan Sulaiman, Effectiveness of Work Performance by Implementing Back Charges in Construction Projects (AP776) 2016
- [14] Mohamad Azizi bin Mersal, Space Management in Higher Education institution: Space utilization (AP779) 2015
- [15] Nur Syahida Mohd Arif, Assessing Barrier on Implementing Sustainable Design Workplace among Designers (AP779) 2015
- [16] Noor Shazuziezan Sukri, A Study on Employees' Satisfaction on Workplace Environment in Office Building (AP779) 2015
- [17] Muhammad Aimanul Hakim b. Yusoff Mohsin, Implementation of Safety Practices During Night Time Construction for Infrastructure Projects at Klang Valley (AP776) 2015

- [18] Zahidatul Murniza bt Abu Samah, Exploring the Barriers and Driving Factors in Implementing Qlassic in the Malaysia Construction Industry (AP776) 2015
- [19] Nur Fairuzz bin Baharin, A Study on Performance of Facilities Management Practices at Menara Getah Asli (AP779) 2014
- [20] Rozaiman bin Idris, The effectiveness of ISO in enhancing quality of construction projects (AP776) 2014
- [21] Muhamad Hatim Abdul Latip, Barrier of Qlassic Implementation in Stratitified Housing Projects in Klang Valley (AP776) 2014
- [22] Noor Elyyana Abd Razak, Assessing FM Support Towards E- Learning for higher Learning Institution (AP779) 2013
- [23] Khairul Nisha Mohd Isha, Optimising Facilities management Performance in Protons's 3S Centre (AP779) 2012

## Publications JOURNAL

### PUBLICATIONS FOR 2023

- [1] Kwong Qi Jie, Normaisarah Nordin, **Emma Marinie Ahmad Zawawi**, and Jamalunlaili Abdullah (2023). Workers' heat stress and noise exposure levels in a manufacturing plant: A field study in equatorial Malaysia. *Pertanika J. Sci. & Technol.* 31 (2): 961 - 975 (2023) (*Scopus-Q4*)
- [2] Nur Aqlima Ramli, **Emma Marinie Ahmad Zawawi**, Nor Rima Muhamad Ariff (2023) Environmental Cleaning Battling Against Covid-19 Infection In Healthcare Facilities, *Facilities*, DOI (10.1108/F-03-2022-0044) (*Scopus-Q1*)
- [3] Suqi Wang, **Emma Marinie Binti Ahmad Zawawi\***, Qi Jie Kwong, Rui Wang , Junya Deng, Predication of smart building energy consumption based on deep learning algorithm, *Journal of Autonomous Intelligence* (2023) Volume 6 Issue 2, doi: 10.32629/jai.v6i2.691 (*Scopus*)

### PUBLICATIONS FOR 2022

- [1] Siti Rashidah Hanum Abd Wahab, Nadhrah Aina Roz Foad, **Emma Marinie Ahmad Zawawi**, Anis Rosniza Nizam Akhbar (2022), Quality Management On Workmanship For High Rise Building, *Journal of Building Performance*, 13(1), (*MyCite*)
- [2] Faza Ihsan Zaidi, **Emma Marinie Ahmad Zawawi** and Rumaizah Mohd Nordin (2022). Strategic Leadership for Successful Companies Performance, *Built Environment Journal*, 12(1), 31 (*MyCite*).
- [3] **Emma Marinie Ahmad Zawawi**, Nazirah Shahdan Osman, Siti Suhaidah Sahab (2022) Investigation of Construction and Demolition (C&D) Waste Management Practices in in Sarawak, Construction and Demolition (C&D) Waste Management, 12(1), *International Journal of Real Estate Studies* (*MyCite*).
- [4] Ali Ariff, A.A., **Ahmad Zawawi, E.M.**, Yunus, J. and Kwong, Q.J. (2022), "A systematic review for a highly accessible green roof for Malaysian public institution buildings", *Journal of Facilities Management*, <https://doi-org.ezaccess.library.uitm.edu.my/10.1108/JFM-10-2021-0122> (*Scopus-Q2*)

### **PUBLICATIONS FOR 2021**

- [1] **Ahmad Zawawi, E. M.**, & Wan Ibrahim, W. H. (2021). The Environmental Impact on Human Wellbeing: A Case Study on Residences in Quarry Area. *International Journal of Sustainable Construction Engineering and Technology*, 12(1), 31-39. (Scopus)
- [2] Farrah Norizzah Mohd Yussof, Haifa Afieqah Binti Hasbi, **Emma Marinie Ahmad Zawawi** (2021). Employability Forecast Among Construction Management from The Employer's Perspective in Malaysia Construction Industry, *Built Environment Journal*, 18(1), 79-86 (MyCite)

### **PUBLICATIONS FOR 2019**

- [1] Faza Ihsan and **Emma Marinie Ahmad Zawawi** (2019) Determination Of Elements In Indoor Dust At Residential Buildings Nearby Aquarry Site Copyright © 2018, *Journal of Building Performance*, Vol 10 (2) 175-178, (MyCite)
- [2] Wan Hasmirah Wan Ibrahim, **Emma Marinie Ahmad Zawawi**, Julitta Yunus, Nurfashiha Hashim, Khalida Mohd Sukur (2019) Environmental Impact On Residents' well-being in The Vicinity Of Quarrying, *Journal of Building Performance*, Vol 10 (2), 93-102, (MyCite)
- [3] Nur Aqlima Ramli, Emma Marinie Zawawi, Nor Rima Muhamad Ariff, Nurul Nadiah Zainol and Siti Solehah Kadir (2018) A Study On The Green Cleaning Benefits For Malaysian Public School, *Malaysian Construction Research Journal*, Vol.8(3), 50-60 (Scopus)

### **PUBLICATIONS FOR 2018**

- [1] W. H. Wan Ibrahim, **E.M.Ahmad Zawawi**, F.Muhamad Darus, N.A.Abu Sudin (2019) Determination Of Elements In Indoor Dust At Residential Buildings Nearby Quarry Site Copyright © 2018, *International Journal of Engineering & Technology*, 7 (4.14) (2018) 175-178 (Scopus)
- [2] Syahrul Nizam Kamaruzzaman, Atikah Razali, **Emma Marinie Ahmad Zawawi**, Michael Riley (2018) The Effect of Indoor Environment towards Middle-Income Group in Re-Engineered Affordable Housing Scheme in Malaysia, *Journal of Design and Built Environment (JDBE)*, 1, 87-101 (Scopus)
- [3] **Zawawi, E.M.A.**, Yusof, N.S, Ismail, Z (2018) Adoption of post-disaster waste management plan into disaster management guidelines for Malaysia, *Journal of Material Cycles and Waste Management*, Volume 20, Issue 1, 1 January 2018, Pages 223-236 DOI: 10.1007/s10163-016-0569-x, ISSN: 14384957,(Scopus, Q2 Scimago Ranking)
- [4] Syahrul Nizam Kamaruzzaman, Atikah Razali, **Emma Marinie Ahmad Zawawi**, Michael Riley (2018) Determining Significant Parameters On Health And Well-Being Of Building Occupants Towards Re-Engineered Inclusive Environment, *Journal of Building Performance*, 9(1), 80-92. (MyCite)
- [5] Syahrul Nizam Kamaruzzaman, Nik Elyna Myeda, **Emma Zawawi**, Rozita Mohamed Ramli, (2018), Developing Facilities Management (FM) competencies for Malaysia: reference from international practice", *Journal of Facilities Management*, <https://doi.org/10.1108/JFM-08-2017-0036> (Scopus)

### **PUBLICATIONS FOR 2017**

- [1] Nurul Asra Abd. Rahman Zainab Mohmad Zainordin, and **Emma Marinie Ahmad Zawawi** (2017) Social Attributes and Public Participation towards Smart City Development, Politeknik & Kolej Komuniti, *Journal of Social Sciences and Humanities*, Vol 1 No 1 (2017) (Refereed)
- [2] Kamaruzzaman, S.N.; Egbu C.O.; Mahyuddin, N.; **Zawawi, E.M.A.**; Chua, S.J.L.; Azmi, N. F. (2017). The impact of IEQ on occupants' satisfaction in Malaysian buildings. *Indoor and Built Environment*. (ISI WoS)

### **PUBLICATIONS FOR 2016**

- [1] Syahrul Nizam Kamaruzzaman , **Emma Marinie Ahmad Zawawi** , Muhaimin Ooyub Shafie , Siti Nur Aishah Mohd Noor (2016) Assessing the readiness of facilities management organizations in implementing knowledge management systems , *Journal of Facilities Management*, Vol. 14 Iss: 1, pp.69 – 83 (Scopus)
- [2] N Sa'adi, Z Ismail, M Makmor, **EMA Zawawi** (2016) Implementation of Malaysian Government Initiative in Managing Construction Waste, *Jurnal Teknologi*, 28 (5-2), pp 55-60. (Scopus)

### **PUBLICATIONS FOR 2015**

- [1] Naziah Muhamad Salleh, Syahrul Nizam Kamaruzzaman, Mike Riley, **Emma Marinie Ahmad Zawawi**, Raha Sulaiman (2015) A quantitative evaluation of indoor environmental quality in refurbished kindergarten buildings: A Malaysian case study, *Building and Environment*, 94, 723-733. (ISI WoS)
- [2] **E. M. A. Zawawi**, N. S. Yusof, S. N. Kamaruzzaman, Z. Ismail (2015), Important criteria for managing disaster waste in Malaysia, *Jurnal Teknologi*, 75(9) (Scopus)
- [3] Syahrul Nizam Kamaruzzaman, CO Egbu, **Emma Marinie Ahmad Zawawi**, Saipol Bari Abd Karim, Chen Jia Woon (2015) Occupants' satisfaction toward building environmental quality: structural equation modeling approach, *Environmental monitoring and assessment*, 187 (5), 1-21 (ISI WoS)
- [4] Syahrul Nizam Kamaruzzaman, Rodger Edwards, **Emma Marinie Ahmad Zawawi**, Adi Irfan Che-Ani (2015), Achieving energy and cost savings through simple daylighting control in tropical historic buildings, *Energy and Buildings*, 90, 85-93 (ISI WoS)

### **PUBLICATIONS FOR 2011**

- [1] Syahrul Nizam Kamaruzzaman, Egbu C.O. **Emma Marinie Ahmad Zawawi**, Azlan Shah Ali, Adi Irfan Che-Ani, (2011) The effect of indoor environmental quality on occupants perception of performance: A case study of refurbished historic buildings in Malaysia, *Energy and Buildings*, Elsevier Sci-Direct, 43 (2011) pp 407-403 (ISI WoS)

### **PUBLICATIONS FOR 2010**

- [1] **Emma Marinie Ahmad Zawawi**, Syahrul Nizam Kamaruzzaman, Azlan Shah Ali and Raha Sulaiman (2010) Assessment of building maintenance management in Malaysia: Resolving using a solution diagram, *Journal of Retail Leisure Property* Volume 9, Issue 4 (November 2010),pp 349-356 (*Scopus*)
- [2] **E.M.A. Zawawi**, Khalid, Y. and Kamaruzzaman S.N. (2010) Effective Use of Software for Construction Project Control, Planning and Scheduling, *The Malaysian Surveyor*, Vol. 45 No.4 2010 pp.24-28 (*Refereed*)
- [3] Syahrul Nizam Kamaruzzaman & **Emma Marinie Ahmad Zawawi** (2010), Development of facilities management in Malaysia, *Journal of Facilities Management*, Volume 8 (1) Emerald Group Publishing Limited, UK, pp 75 – 81 (*Scopus*) (Outstanding paper 2010)
- [4] Syahrul Nizam Kamaruzzaman & **Emma Marinie Ahmad Zawawi** (2010), Influence of Employees Perceptions of Colour Preferences on Productivity in Malaysian Office Buildings, *Journal of Sustainable Development*, Vol. 3, No. 3, 2010. pp 283-293 Canadian Center of Science and Education, Canada. (*Refereed*)
- [5] S. N. Kamaruzzaman, **M. A. Emma Zawawi**, Michael Pitt and Zuraidah Mohd Don,(2010) Occupant feedback on indoor environmental quality in refurbished historic buildings, *International Journal of Physical Sciences*, Vol. 5 (3), pp. 192 - 199, March 2010.ISSN 1992-1950- 2009 (*ISI WoS*)
- [6] S.N. Kamaruzzaman & **E.M.A. Zawawi** (2010) Employees Feedback on Office Workspace Configuration in Public Higher Learning Institution, *Journal of Building Performance*, Volume 1, Issue 1 2010 pp 119-129 (*MyCite*)
- [7] S.N. Kamaruzzaman, H. Salleh, **E.M. Ahmad Zawawi** and A.S. Ali (2010), Current Use and Needs of ICT In Malaysian Building Industry: The Industry Perspective, *Journal of Design + Built*, Volume 3, 2010, pp 74-84 (*Refereed*)

### **PUBLICATIONS FOR 2009**

- [1] S. N. Kamaruzzaman, Azlan Shah Ali, Zulkiflee Abdul- Samad and **Emma M. A. Zawawi** (2009), Energy performance of electrical support facilities: The case of adaptive re-used historical buildings in Malaysia, *International Journal of Physical Sciences*, Vol. 4 (12), pp. 752-757, December 2009.ISSN 1992-1950 (*ISI WoS*)
- [2] **Emma M.A Zawawi** and Syahrul Nizam Kamaruzzaman (2009) Personnel Characteristic of Maintenance Practice: A Case of High Rise Office Buildings in Malaysia, *Journal of Sustainability Development*, Canadian Centre of Science and Education, ISSN 1913-9071 (Online), p.111

### **PUBLICATIONS FOR 2007**

- [1] Syahrul Nizam Kamaruzzaman, Rodger Edwards, **Emma M.A. Zawawi** (2007), Energy Consumption of Electricity End Uses in Malaysian Historic Buildings, *Energy and Environment*, Multi-Science Publishing Co.Ltd, UK, pp 393-402 (*ISI WoS*)

# PROCEEDING

## PUBLICATIONS FOR 2023

- [1] **E.M.A Zawawi**, A.W Imran and N Hashim (2023) Challenges of Utilizing Sustainable Materials for Construction Project, Conference Proceeding, Vol 2881 (1) International Conference On Built Environment and Engineering, Purajaya, Malaysia , 17-19 Oct 2022 /doi.org/10.1063/5.0167901(Scopus).
- [2] **E.M.A Zawawi**, A.W Imran and N Hashim (2023) Challenges of Utilizing Sustainable Materials for Construction Project, Conference Proceeding, Vol 2881 (1) International Conference On Built Environment and Engineering, Purajaya, Malaysia , 17-19 Oct 2022 /doi.org/10.1063/5.0167901(Scopus).
- [3] Wang Suqi, **Emma Marinie Binti Ahmad Zawawi**, Kwong Qi Jie, Cui Yunpeng, Yu Junyi (2023) Enhances of nearly zero-energy public buildings in regions with hot summers and cold winter International Conference on Emerging Electronic & Automation Technology 2022 (ICEEAT 2022) 10-11 December 2022, Virtual Conference, China 10/12/2022 - 11/12/2022 Online, Journal of Physics, 2467 (2023) 012019 Conference Series, doi:10.1088/1742-6596/2467/1/012019 (Scopus)
- [4] Nurfadzillah Ishak, Muhammad Azizi Azizan, Fazdliel Aswad Ibrahim, Nur Soleha Abdul Rahim, **Emma Marinie Ahmad Zawawi**, Nur Hidayah Khairul Anuar, Nor Suraya Shohime (2023) Building Information Modelling (BIM) Application as Risk Mitigation Strategies in Building Refurbishment, IOP Conference Series: Earth and Environmental Science Project Life Cycle, ICONGEET-2022, 1216 (2023) 012030, doi:10.1088/1755-1315/1216/1/012030 (Scopus)

## PUBLICATIONS FOR 2022

- [5] Nurfadzillah Ishak, Fazdliel Aswad Ibrahim, Nur Soleha Abdul Rahim, **Emma Marinie Ahmad Zawawi**, Norsyakilah Romeli, Muhammad Azizi Azizan and Zhi Kuan Jong (2022) Building Information Modelling (Bim) Application For Risk Mitigation Strategies In Building Refurbishment Project Performance Improvement, ETIC2022 (Engineering Technology International Conference 2022), 6(17), 63-69 (Wos)
- [6] **Emma Marinie Ahmad Zawawi**, Aina Wahida Imran and Norfashiha Hashim (2022) Challenges Of Utilising Sustainable Materials For Construction Project, IConBEE2022 (International Conference In Built Environment and Engineering, 17,18 &19 October 2022, Zenith Hotel Putrajaya.(Scopus)
- [7] Azlan Ariff Ali Ariff, Norfahani Zainuddin, Liyana Mahfuzah Mohd For, **Emma Marinie Ahmad Zawawi** and Julitta Yunus (2022) Revit Simulation Application in Evaluating Fenestration Strategies towards, IConBEE2022 (International Conference In Built ENvironment and Engineering, 17,18 &19 October 2022, Zenith Hotel Putrajaya. (Scopus)
- [8] Nur Fayyadhah Pasti, Zalida Salleh, Julitta Yunus, **Emma Marinie Ahmad Zawawi** and Azlan Ariff Ali Ariff (2022) Daylight Utilisation of Low-Cost Housing Scheme in Sarawak, Malaysia, IConBEE2022 (International Conference In Built ENvironment and Engineering, 17,18 &19 October 2022, Zenith Hotel Putrajaya. (Scopus)
- [9] Nurul Asra Abd Rahman, Syahrul Nizam Kamaruzzaman, Zainab Mohmad Zainordin, Zarina Alias and **Emma Marinie Ahmad Zawawi** (2022) An Empirical Study on Best Practices for Mass Gathering in



Religious Buildings During and Post COVID-19, IConBEE2022 (International Conference In Built Environment and Engineering, 17,18 &19 October 2022, Zenith Hotel Putrajaya (Scopus)

### **PUBLICATIONS FOR 2021**

- [1] Azlan Ariff Ali Ariff Ariff, **Emma Marinie Ahmad Zawawi**, Julitta Yunus, Rodger Edwards (2021) Pathway Network Design as Natural Surveillance Strategy of Safe Green Roof Environment for Public, Environment-Behaviour Proceedings Journal, 6(17), 63-69 (Wos)

### **PUBLICATIONS FOR 2020**

- [1] Faza Ehsan Zaidi, **Emma Marinie Ahmad Zawawi**, & Rumaizah Mohd Nordin (2020) A Conceptual Approach on Strategic Leadership for Successful of Strategic Leadership Implementation, *Proceeding International, Invention and Design Exposition for Built Environment and Engineering (IIIDBEX2020)*, 272-278. eISBN 978-967-17079-2-0
- [2] Azlan Ariff Ali Ariff, **Emma Marinie Ahmad Zawawi** & Julitta Yunus (2020), Green Roof as Assessible Public Realm in Malaysian City, *Proceeding International, Invention and Design Exposition for Built Environment and Engineering (IIIDBEX2020)*, 141-147. eISBN 978-967-17079-2-0
- [3] Farrah Norizzah Mohd Yussof, Haifa Afiwah binti Hasbi & **Emma Marinie Ahmad Zawawi** (2020) Employability Forecast from Perspective of Construction Industry, *Proceeding International, Invention and Design Exposition for Built Environment and Engineering (IIIDBEX2020)*, 361-366, eISBN 978-967-17079-2-0

### **PUBLICATIONS FOR 2019**

- [1] Ishak, N.M.A, Hien, W.N.b, Jenatabadi, H.S.c, Mustafa, N.A.D, **Zawawi, E.M.A.** (2019) Effect of reflective building façade on pedestrian visual comfort, Volume 385, Issue 1, 26 November 2019, Article number 0120594th International Conference on Research Methodology for Built Environment and Engineering 2019, ICRMBEE 2019; Chulalongkorn University Chamchuri 10, Bangkok; Malaysia; 24 April 2019 through 25 April 2019; Code 156143 (*Scopus*)

### **PUBLICATIONS FOR 2018**

- [1] **EMA Zawawi**, AZ Azaiz, SN Kamaruzzaman, NM Ishak, FNM Yussof (2019) Indoor Air Quality (IAQ) Performance in Refurbished Projects: A Case Study of Two Private Schools in Selangor, Matec Web of Conference – IConBEE2018
- [2] Irrma Diana Mohd Aripin, **Emma Marinie Ahmad Zawawi**, Zulhabri Ismail (2019) Factors Influencing the Implementation of Technologies Behind Industry 4.0 in the Malaysian Construction Industry, Matec Web of Conference – IConBEE2018
- [3] Faza Ihsan Zaidi, **Emma Marinie Ahmad Zawawi**, Rumaizah Mohd Nordin (2019) Strategy implementation process for better employees' performance in construction companies, Matec Web of Conference – IConBEE2018
- [4] Nur Aqlima Ramli, **Emma Marinie Zawawi**, Nor Rima Muhamad Ariff, Siti Solehah Kadir, Nurul Nadiah Zainol (2019) Green Cleaning: A Study on Benefits for Malaysian School Building, Web of Conference – IConBEE2018

- [5] Wan Hasmirah Wan Ibrahim, **Emma Marinie Ahmad Zawawi**, Khalida Mohd Sukur, Julitta Yunus, Norfashiha Hashim (2019) Resident's Perception Towards Environmental Impact on Human Wellbeing Near the Quarry Mining Vicinity, Web of Conference – IConBEE2018

### **PUBLICATIONS FOR 2018**

- [1] NA Ramli, **EM Zawawi**, NRM Arif, NS Mahbob, Z Sulaiman, NN Zainol (2018) A perspective study on green cleaning for Malaysian public hospital, IOP Conf. Series: Earth and Environmental Science, 117 (2018) 012017. (*Scopus*)
- [2] Wan Hasmirah Wan Ibrahim, **Emma Marinie Ahmad Zawawi**, Julitta Yunus & Khalida Mohd Sukur (2018) Air Quality Assessment on Human Well Being in the Vicinity of Quarry Site, IOP Conf. Series: Earth and Environmental Science, 117 (2018) 012017. (*Scopus*)
- [3] F I Zaidi , **E M A Zawawi** , R M Nordin and E M Ahnuar (2018) An empirical analysis of strategy implementation process and performance of construction companies, IOP Conf. Series: Earth and Environmental Science, 117 (2018) 012017. (*Scopus*)
- [4] R Mohd Nordin, E Latip, **EM Ahmad Zawawi**, Z Ismail (2018) Opportunities for corruption across Flood Disaster Management (FDM), IOP Conf. Series: Earth and Environmental Science, 117 (2018) 012017. (*Scopus*)
- [5] Isnin,Z, Hisham, S.S.D.B., Ramele, R., **Zawawi, E.M.A** (2016) Challenges to Building Surveyors from the Perspectives of Non Surveyors , MATEC Web of Conferences , 4th International Building Control Conference, IBCC 2016; Hotel Pullman Kuala Lumpur Bangsar, Wilayah Persekutuan Kuala Lumpur; Malaysia; 7 March 2016 through 8 March 2016, MATEC Web of Conferences, Volume 66, 13 July 2016, Article number 00097 (*Scopus*)
- [6] Nor Syazwani Yusof, **EMA Zawawi**, Zulhabri Ismail (2016) Disaster Waste Management in Malaysia: Significant Issues, Policies & Strategies, MATEC Web of Conferences, Vol 66. (*Scopus*)
- [7] SN Kamaruzzaman, N Ashiqin, **EMA Zawawi**, M Riley (2016) Critical Aspects of the Inclusive Environmental for the Well-being of Building Occupant–A Review, MATEC Web of Conferences, Vol 66 (*Scopus*)

### **PUBLICATIONS FOR 2014**

- [1] Zarina Alias, **EMA Zawawi**, Khalid Yusof, NM Aris (2014) Determining Critical Success Factors of Project Management Practice: A Conceptual Framework, *Procedia-Social and Behavioral Sciences*, 153, 61-69 (WoS)
- [2] **EMA Zawawi**, SN Kamaruzzaman, NDM Dahari, RA Rashid (2014), Perception Study on Workspace for Government Office in Malaysia, *MATEC Web of Conferences*, 15, 01017 (*Scopus*)
- [3]

### **PUBLICATIONS FOR 2013**

- [1] Mohd Farhan bin Mohd Mukelas , **Emma Marinie Ahmad Zawawi** , Zarina Alias, Khalida Mohd. Sukur (2013) The effect of construction cost estimating (CCE) software on job performance: An improvement plan , The 3<sup>rd</sup> International Building Control Conference The Royal Chulan Hotel Kuala Lumpur 21 November 2013 (*Scopus*)

- [2] Zarina Alias, Mohd Farhan Mohd Mukelas and **Emma Marinie Ahmad Zawawi** (2013) Measuring construction cost estimating software (CCES) performance of contractors in Malaysia: Development of theoretical framework, 2013 IEEE Symposium on Humanities, Science & Engineering Research (SHUSER 2013), 23<sup>rd</sup> – 26<sup>th</sup> June, 2012 (*Scopus*)
- [3] S.N Kamaruzzaman, **E.M.A Zawawi**, N.D.M Dahari, R.A. Rashid (2013) Perception Study on Workspace for Government Office in Malaysia Proceeding The 3rd International Building Control Conference 2013, The Royal Chulan Hotel Kuala Lumpur 21 November 2013 pp 683-688 (*Scopus*)

### **PUBLICATIONS FOR 2012**

- [1] Mohd Farhan Mohd Mukelas and **Emma Marinie Ahmad Zawawi** (2012) A Literature Study of ICT Usage In Construction Project, 2012 International Conference on Innovation and Technology for Sustainable Built Environment (ICITSBE 2012) 27-28 March 2012, Perak, Malaysia.
- [2] Mohd Farhan Mohd Mukelas and **Emma Ahmad Zawawi** (2012) Theoretical Framework For ICT Implementation In The Malaysian Construction Industry: Issues And Challenges, The 1<sup>st</sup> International Conference on Innovation, Management and Technology Research (ICIMTR2012) (*Scopus*).

### **OTHER PUBLICATION**

- [1] **Emma Marinie Ahmad Zawawi** (2021), *Koordinasi Pengurusan Pasca Bencana*, Sinar Harian 24 Disember 2021 ,p.18.

### **Research Grants and Contracts**

- [1] Research Member, Strategic Green Facade Retrofit Guideline using Microalgae Photobioreactor (PBR) Modular Design for Improved Energy Performance in Tropical Buildings (RM119,800.00), (Ref: FRGS/1/2023/SSI02/UITM/02/8) 2023-2025
- [2] Research Leader, Spatial Risk Framework Of Community Comfort And Disruption Levels Due To Air Quality From Light Rail Transit Construction (GIP RM18,000) 600-RMC/GIP 5/3 (174/2021) 2021-2022
- [3] Research Member, Critical Risk Identification Mechanism integrated with Building Information Modelling (BIM) strategies for Building Refurbishment Project Lifecycle Performance Improvement (FRGS/1/2021/TK0/UNIMAP/02/80) RM116,400 2021-2024
- [4] Research Member, Ranking System For Water Efficiency Improvement Strategies In Malaysian Residential Buildings (600-RMC/LESTARI SDG-T 5/3 (005/2021) RM20,000.00, 2021-2023
- [5] Research Member, Sustainable Facilities Management (SFM) Initiatives Towards Green Hotels Trends Industry In Malaysia (FRGS RM59,150) 2019-2021
- [6] Research Leader, Preventive Measure In Controlling The Environmental Effects Of Air Quality Towards Human Well-Being In Quarry Mining Vicinity (REI RM32,000) 600-IRMI/REI 5/3 (008/2018) 2018-2020
- [7] Research Member, Development of practical guideline in controlling the environmental effects of air quality towards human well-being in quarry mining vicinity. (BESTARI PERDANA, RM25,000) 2018-

2020

- [8] Research Member, Transparent Flood Disaster Management Framework (LESTARI RM20,000) 2016-2018
- [9] Research Member, Competency assessment tool for effective and efficient construction contract administration (LESTARI RM20,000) 2015-2017
- [10] Research Leader, A framework of disaster waste management adaption into an act 672 solid waste management in Malaysia (LESTARI, RM20,000) 2015-2017
- [11] Research Member, Guideline for Disaster Waste Management in Malaysia (FRGS, RM33,700) 2015-2015
- [12] Research Member, The Transformation Strategies in Facilities management for Business and Innovation, (Program Rakan Penyelidikan Universiti Malaya , PRPUM) RM79,000 2013-2014
- [13] Research Member, A New Framework for determining CSF of Project Management Practice (UiTM RIF Grant : RM32 000) 2012-2014
- [14] Research Member, Influence of construction cost estimating (CCE) Software on the construction cost estimating (CCE) Performance of contractors, (UiTM RIF Grant : RM32 000) 2012-2014
- [15] Research Leader, Effective Use of Software for Construction Project Control, Monitoring and Scheduling/ Dana Kecemerlangan (RM4200.00) 2008-2009
- [16] Research Leader, Critical Success Factor for Best Maintenance Management Practice: Development of Process & Procedure, Fundamental Research Grant Scheme (FRGS), 600- RMI/ST/FRGS 5/3/Fst (117/2010) (RM 48000) 2010-2012

## Conferences

- [1] Advisor for International Conference in Built Environment and Engineering (IConBEE-2022), Zenith Hotel, Putrajaya
- [2] Treasurer for International Conference in Built Environment and Engineering (IConBEE-2018), Jen Hotel, Johor Baharu
- [3] Chair Session (Conference in Built Environment and Engineering (IConBEE-2018))

## Consultation & Expertise

### CONSULTATION

- [1] Kursus Primavera 2018 (Consultant) 12 May – 13 May 2017, FSPU, UiTM (RM22,325.00)
- [2] Kursus Perancangan dan Pemantauan Projek Pembinaan dengan Aplikasi Primavera P6 dan MS Excel (Consultant) 13 May – 14 May 2017, FSPU, UiTM (31,250.00)
- [3] Kursus Primavera P6, 2016 (Consultant) 31 May – 1 June 2016, FSPU, UiTM (15,000.00)
- [4] Kursus Primavera, 2015 (Consultant) 29-30 May 2015 , FSPU, UiTM (12,000.00)
- [5] Primavera Level 1, 2014 (Consultant Head) 30-31 May 2014 , FSPU,UiTM (RM8000.00)

## **EXAMINER**

- [1] Internal Examiner Thesis PhD – HAmidi bin Saidin, UiTM, 2023 (Analysis of the impact of Ventilation Strategies on Indoor Air Quality and Thermal Comfort in Bank Offices)
- [2] Internal Examiner Thesis PhD – Alyaa Afifah Abu Talib 2021(A Framework of Sustainable Facilities Management (SFM) for Hotel Industry in Malaysia)
- [3] Internal Examiner Thesis PhD - Farah Liyana, UiTM, 2019 (Achieving the comfort level of low-cost housing corridor towards providing conducive environment for children)
- [4] Internal Examiner Thesis PhD – Abdul Malek Zainal Abidin, UiTM, 2019 (Analysis of ventilation effect on children health symptom at child care centers)
- [5] Internal Examiner Thesis Master Program - Janet Victoria, UiTM, 8 October 2018
- [6] Internal Examiner Thesis Master Program - Nurzalikha Sa'adi UiTM, 23 Mac 2016
- [7] Internal Examiner Thesis Master Program - Maisarah Makmor, UiTM, 2014 (An improved Environmental Impact Assessment (EIA) process in Malaysia towards sustainable development)
- [8] External Examiner Thesis Master Program- Hafsa Binti Yahya, Universiti Malaya, 21 Mac 2012

## **REVIEWER**

- [1] J. of Performance of Constructed Facilities “Exploring Architectural Design Factors Affecting Building Maintainability and Strategies to Overcome Current Shortcomings” (5<sup>th</sup> January 2022 – 26<sup>th</sup> January 2022)
- [2] Journal of Technology, Management and Business “Facilities Management Service Providers Competencies Reviews fro Managing Green Building in Malaysia” (7<sup>th</sup> October 2021 – 21<sup>st</sup> October 2021)
- [3] International Building Condition Conference (IBCC2021), University of Malaya “Electronic Energy Benchmarking System (e-EBS) Towards Sustainable Building Energy Performance” (5<sup>th</sup> October 2021 – 9<sup>th</sup> October 2021)
- [4] International Conference in Research Method in Built Environment (ICRMBEE) “Impact of Construction Project Planning on Contractor's Profit” (31 March 2019)
- [5] International Conference in Research Method in Built Environment (ICRMBEE) “Analysis of Barriers that Influencing Green Design Implementation Among the Contractors in Construction Industry” (31 March 2019)
- [6] Facilities “Differences in Conventional and Seniors-Oriented Apartment Management” (9 April 2018)
- [7] Waste Management “Reliability analysis of a disaster waste management system Waste Management (9 April 2018)

- [8] Journal of Facilities Management “Behavioural Competencies for Asset Manager’s Roles on Federal Facilities Asset Management in Malaysia (18 December 2017)
- [9] International Journal of Disaster Risk Reduction “Local Debris Management Planning and FEMA Policies on Disaster Recovery International Journal of Disaster Risk Reduction (30 Aug 2017)
- [10] Journal of Building Performance “Development of Energy Benchmarking of Malaysian Government Hospital and Analysis of Energy Saving Opportunities (15 Feb 2016 - 21 Mac 2016)
- [11] Facilities “Public Private Partnership in University Femail Student’s Hostel Delivery: Analysis of users satisfaction in Nigeria” (27 Jan 2016 - 10 Feb 2016)
- [12] The Malaysian Surveyors “Building Occupant Satisfaction to Facility Management Services: A Case of Educational Building in Malaysia” (23 Mac 2015 - 10 April 2015)
- [13] Journal of Building Performance “Indoor Environmental Quality Assessment and Users Perception In Meru Secondary School (SMK Meru) (27 Mac 2015 - 01 Mei 2015)

### **BOOK & EDITORIAL**

- [1] Dissertation Guideline for BSc Construction Management (UTEM Press 2022)
- [2] Guess Editor for Journal of Building Performance, Special Edition, Vol10 (2), 2019
- [3] Dissertation Handbook for AP246 Students

## **Innovation, Commercialization & Entrepreneurial**

### **Innovation**

- [1] Poster Competition, International Conference in Built Environment and Engineering (IConBEE2022) ,Challenges of Sustainable Materials Application in Construction Industry, SILVER
- [2] HITeL Teaching & Learning Innovation Competition (2022) The Integration Of Research Methodology Information Through Research Methodology Hand Notes (Rm-Notes)
- [3] Built Environment Research for Undergraduate Competition (BEURC), The Challenges in implementing Industrialised Building System (IBS) for Construction Project in Malaysia , Siti Nur Farah binti Mohd Zahuri & Emma Marinie Ahmad Zawawi, GOLD, 2021
- [4] Built Environment Research for Undergraduate Competition (BEURC), Challenges of Sustainable Construction Practice in Malaysia Siti Nur Liyana bt Nor Aman & Emma Marinie Ahmad Zawawi, GOLD, 2021
- [5] Teaching and Learning Poster Ideas (TALPI 2021) Online Assessment and Evaluation in Group Work Project, BRONZE, 2021.
- [6] International Invention, Innovation & Design Exposition For Built Environment and Engineering (IIIDEBEEEX 2020), entitles Green Roof ad Permeable Public Realm in Malaysian City, GOLD, 2020, International

- [7] International Invention, Innovation & Design Exposition For Built Environment and Engineering (IIIDEBEEX 2020), entitles A Conceptual Approach on Strategic Leadership for Successful of Strategy Implementation, SILVER, 2020, International
- [8] National E-Content Development Competition (eCONDeV) for MOOC entitles Construction Health and Safety, Silver, 2018, National
- [9] International Research Innovation Invention Solution Exposition (IRIISE) 2018, Gold, International.
- [10] Breakthrough Invention, Innovation & Design Exhibition (BiiDE 2018)
- [11] National e-Content Development Competition 2017 (eConDEV, 2017), Bronze, 2017, National
- [12] The 1st International Malaysia-Indonesia-Thailand Symposium on Innovation and Creativity (iMIT SIC 2017), SILVER, 2017, International
- [13] Innovation and Invention Competition, Gold IIDEX, 2016, UiTM
- [14] Innovation and Invention Competition, Gold IIDEX, 2016, FSPU
- [15] National University Carnival of e-Learning (NUCEL 2014) Bronze NUCEL 2014, National
- [16] National University Carnival of e-Learning (NUCEL 2015) Bronze NUCEL 2015, National
- [17] Bronze, International Invention & Innovative Competition InIIC Series 1/2016, MNNF Network & MNNF Publisher

### **CONTENT DEVELOPMENT**

- [1] Massive Open Online Course (MOOC) Developer (Leader) for BCM414 Construction Technology I, 2018
- [2] Massive Open Online Course (MOOC) (Leader) for BCM542 Research Methodology and Methods, 2017
- [3] Massive Open Online Course (MOOC) (Leader) for BCM452 Construction Health and Safety, 2017

### **Patent/IPR/Copyright**

- [1] Simulation Parameter to Manage Flood Waste in Malaysia (No Permohonan:LY2019001418/ No Pemberitahuan: CRLY0014839)
- [2] RM-Notes (No Pemberitahuan : CRLY2022W04254)

## **Services & Administration**

- [1] Dean (Academic and International) College of Built Environment (October 2022 – September 2024)
- [2] Deputy Dean (Academic) (February 2021 – January 2023)
- [3] Deputy Dean (Academic) (February 2019 – January 2021)
- [4] Deputy Dean (Student Affairs) (October 2018 – January 2019)
- [5] Head of Centre of Studies for Construction, Faculty of Architecture, Planning and Surveying, UiTM, Malaysia (2017-2018)

- [6] Ahli Jawatankuasa Pelan Strategik Fakulti (2021)
- [7] Ahli Jawatankuasa Penyelidikan Fakulti (2020-2022)
- [8] Ahli Jawatankuasa Pelan Strategik Fakulti (2020)
- [9] Ahli Jawatankuasa Akademik Pasca Siswazah (JKAPS) (2018 – current)
- [10] Ahli Jawatankuasa Kecil Kurikulum Fakulti (JKKF) (2018 – current)
- [11] Head of AP246 Programme (2014-2018)
- [12] Ahli Jawatankuasa Kesepakatan Fakulti (2018 – current)
- [13] Ahli Jawatankuasa Akademik Fakulti (JAF) (2014 – current)
- [14] Ahli Pelaksana (Ketua Pusat Pengundian) Bagi Jawatankuasa Perwakilan Pelajar (JPP) UiTM Shah Alam sesi 2018/2019
- [15] Head of Centre of Studies for Construction, Faculty of Architecture, Planning and Surveying, UiTM, Malaysia (2015-2017)
- [16] OBE Coordinator (2015-2017)
- [17] Head of Centre of Studies for Construction, Faculty of Architecture, Planning and Surveying, UiTM, Malaysia (2013-2015)
- [18] Penyelaras Projek SULAM Fakulti
- [19] Penyelaras Projek PACE Fakulti
- [20] Head of FSPU Mentor Mentee Program

## Work and Collaboration Experience

- [1] Jabatan Pembangunan Kemahiran (JPK), Kementerian Sumber Manusia (KSM) Divisyen MSIC N81: *Services to Building and Landscape Activities*, Ahli Jawatankuasa Teknikal Penilaian Kerangka Pekerjaan (JTPOF).
- [2] Department of Malaysian Standard, Technical Committee for Building Design and Construction (TC/D/11) since 2018
- [3] Head of Department Field for Built Environment (Building), Majlis Dekan Alam Bina
- [4] Person In-charge of Memorandum of Understanding Between Faculty of Architecture, Planning and Surveying, UiTM and School of Art, Glasgow, United Kingdom

## **Awards & Recognitions**

- [1] Best Paper Award (Category: Construction) Revit Simulation Application in Evaluating Fenestration Strategies towards Energy Conservation in Malaysian Intermediate Terraced Houses, Azlan Ariff Ali Ariff, Norfahani Zainuddin, Liyana Mahfuzah Mohd Nor, **Emma Marinie Ahmad Zawawi** and Julitta Yunus, IConBEE2022
- [2] Excellence Service Award (APC –UiTM) 2020



- [3] E-Learning Award FSPU, 2019
- [4] Excellence Service Award (APC –UiTM) 2013
- [5] Outstanding paper 2010, Syahrul Nizam Kamaruzzaman & **Emma Marinie Ahmad Zawawi** (2010), Development of Facilities Management in Malaysia, Journal of Facilities Management, Volume 8 (1) Emerald Group Publishing Limited, UK, pp 75 – 81
- [6] ISM Excellence Award 2011 - Best Article on Surveying - Effective Use Software for Construction Project Control, Planning and Scheduling, Royal Institute of Surveyors Malaysia (RISM)

## **Invited Speaker**

- [1] International CSIA-FSPU Webinar Series – Assessing Critical Thinking Among Students (2021)
- [2] Pandemic Covid-19 – Challenges and Initiative of Quality Management from the Perspective of Faculty of Architecture, Planning and Surveying (2021)
- [3] The Roles of Academic Advisor Towards Students Excellent (2020)
- [4] AiMS-eRES Workshop

## **Contribution to Society**

- [1] Green Awareness, Melaka (State) (22 – 23 November 2015)
- [2] A Program with Orphanage Children at Wakaf Desa Fahmi, Klang (District) (9<sup>th</sup> April 2016)
- [3] Community Service with community of Taman Maju Jasin, Melaka (District) (13-14 Oktober 2017)
- [4] CM- Recycle Community, 29 Mac 2018
- [5] Community Service Program-Tuition Program with Teratak Che Dah Orphan House, Kundang, Selangor, 23 Mac 2018
- [6] Community Service Program with Sekolah Kebangsaan Bukit Beruntung (2018)
- [7] Treasurer for International Conference in Built Environment and Engineering 2019 (IConBEE2019)
- [8] Community Service Program-Exploration of Tennis, September 2020

## **Other Activities**

1. UiTM Sports Carnival - KARISTA 2022 (Terengganu) - Silver Medal Double Tennis Ladies
2. UiTM Staff Sport (SASSA) 2019 – Tennis & Ping Pong
3. UiTM Sports Carnival - KARISTA 2020 (Sarawak) - Tennis