



Proceedings of UMRAN2014

Landscape Seminar

Theme:

FOSTERING ECOSPHERE IN THE BUILT ENVIRONMENT

29 APRIL 2014

Venue:

**Kulliyah of Architecture and Environmental Design,
International Islamic University Malaysia**



Organised by:

**The Department of Landscape Architecture
Kulliyah of Architecture and Environmental Design. IIUM**

Edited by:

Aniza Abu Bakar & Nurhayati Abdul Malek

UMRAN2014 ORGANIZING COMMITTEE

Program Advisor	Asst. Prof. Dr. Nor Zalina Harun	
Chairman UMRAN2014	Asst. Prof. Dr. Aniza Abu Bakar	
Program Director	Aizuddin Iklil Shah Ahmad Shafiee	
Asst. Program Director	Muhammad Ruzaini Roslan	
Secretariat	Haizal Baharuddin Lukman Ramli	Norsyafiqah Abd Kadir Nurkhaleda Mohd Nasir
Treasurer	Annur Jalilah Ramlan (Head) Aimi Zarak Ali	Nur Athirah Kassim
Scientific Review Committee	Nurul 'Ain Mohd Norddin (Head) Nabila Farhah Mohd Noor Noor Aqmal Hakim Noor Azman Norul Hafizah Yusoff	Nur Emira Ahmad Kamaruddin Nur Fatin Rashidah Abdul Ropal Nur Ikma Mohamad Nasir Nurul Hani Muhamad Noh
Scientific Reviewer	Emeritus Prof. LAr. Dr. Ismawi Hj. Zen Asst. Prof. Dr. Aida Kesuma Azmin Asst. Prof. Dr. Aliyah Nur Zafirah Sanusi Asst. Prof. Dr. Aniza Abu Bakar Asst. Prof. Dr. Fadzidah Abdullah Asst. Prof. Dr. Izawati Tukiman Asst. Prof. Dr. Jamilah Othman Asst. Prof. Dr. Lukman Hakim Mahamod Asst. Prof. Dr. Maheran Yaman Asst. Prof. Dr. Mariana Mohamed Osman Asst. Prof. Dr. Mazlina Mansor Asst. Prof. Dr. Nor Zalina Harun Asst. Prof. Dr. Norzailawati Mohd. Noor Asst. Prof. Dr. Nurul Hamiruddin Salleh Asst. Prof. Dr. Nurul Syala Abdul Latip Asst. Prof. Dr. Rashidi Othman Asst. Prof. Dr. Rosniza Othman Asst. Prof. Dr. Rustam Khairi Zahari Asst. Prof. Dr. Sufian Hamat Asst. Prof. Dr. Syafiee Shuid Asst. Prof. Dr. Tan Chin Keng	Asst. Prof. Dr. Zainul Mukrim Baharuddin Asst. Prof. Dr. Zaiton Abdul Rahim Asst. Prof. Dr. Zumahiran Kamarudin Asst. Prof. Dr. Zuraini Denan Asst. Prof. LAr. Dr. Khalilah Zakariya Asst. Prof. LAr. Dr. Mohd Ramzi Mohd Hussain Asst. Prof. LAr. Dr. Nurhayati Abdul Malek Assoc. Prof. Dr. Abdul Razak Sopian Assoc. Prof. Dr. M. Zainora Asmawi Assoc. Prof. Dr. Md. Mizanur Rashid Assoc. Prof. Dr. Mohd Zin Mohamed Assoc. Prof. Dr. Noor Hanita Abdul Majid Jasasikin Bin Ab Sani Mohd. Fairullazi Ayob Putri Haryati Ibrahim Roziha Che Haron
Protocol Committee	Muhammad Ariff Faisal Azhar (Head) Nik Nor Asiah Nik Nor Azman	Norsyahira Ariffin Nurfaezah Ghani
Sponsorship Committee	Muhammad Saddam Husin Daud (Head) Aisyah Mahmood	Nur Syakirah Mohmad Sayuti
Multimedia & Promotion Committee	Muhammad Faiz Adul Malek (Head) Aslina Abdul Kamil Fahmi Ali	Mu'az Mohamed Zainal Abidin Wan Mohamad Saifuddin Wan Hashim

**Preparation & Technical
Committee**

Aiman Yusri (Head)
Ainul Samihah Albahori
Farha Salim
Mohamad Nur Ridhwan Mohd Nordin
Mohd Nasrul Nafizie Mad Nafiah
Muhammad Saufi Daud

Nazliah Hani Mohd Nasir
Noor Fatin Syakilla Zubir
Noor Sharlisa Dawi
Nur Fadhilah Rozali
Siti Nor Ain Nasihah Mustfar

**Food & Beverage
Committee**

Liyana Bakeri (Head)
Nur Yasmin Mohd Adnan

Muhammad Faridzman Samani

**Registration &
Proceeding Committee**

Ainatul Izzah Ishan (Head)
Nor Hidayah Ramlan
Nur Ezzati Adnan

Nur Syahirah Masdar
Nurlaili Firdaus Che Othman

UMRAN2014 ORGANIZING COMMITTEE	i-ii
TABLE OF CONTENT	iii-v
PREFACE	vi-vii
ACKNOWLEDGEMENT	viii

THEME: FOSTERING ECOSPHERE IN THE BUILT ENVIRONMENT

Session A: Exceeding The Norm Of Sustainability In Built Environment

1. Human Dimension On Fish And Amphibian As Indicators For A Healthy Environment In Urban Lakes Of Kuala Lumpur <i>Lukman Ramli, Liyana Bakeri and Zainul Mukrim Baharuddin</i>	1
2. Assessing The Implication Of Ecology On Scenic Beauty Preferences Of Fraser Hill <i>Nur Emira Ahmad Kamaruddin, Nur Fatin Rashidah Abdul Ropal and Jamilah Othman</i>	16
3. The Impact Of Landscape Setting And Architectural Element On The Outdoor And Indoor Microclimate: A Case Study Of Masjid Al-Mukarramah, Bandar Sri Damansara <i>Nur Yasmin Mohd Adnan, Nur Fadhilah Rozali, Aniza Abu Bakar, Nurhayati Abdul Malek, Rosniza Othman and Aliyah Nur Zafirah Sanusi</i>	32
4. The Impact Of The Outdoor Design And Architectural Dimension Of Masjid SHAS Towards Microclimate <i>Aslina Abdul, Nur Ikma Mohamad Nasir, Aniza Abu Bakar, Nurhayati Abdul Malek, Rosniza Othman and Aliyah Nur Zafirah Sanusi</i>	49
5. Aspect Of Tree For Controlling Outdoor Microclimate: A Case Study In IIUM <i>Mohamad Nur Ridhwan Mohd Nordin, Mohd Nasrul Nafizie Mad Nafiah, Aniza Abu Bakar and Amira Nadhirah Mohamad</i>	58
6. Study On Wild Birds And Elderly People In Relation To Sustainable Construction <i>Noor Sharlisa Dawi, Nur Syahirah Masdar and Ismawi Hj. Zen</i>	72
7. Tourists' Perceptions Towards Nature Trail Facilities Management: A Case Study Of Bukit Nanas Forest, Kuala Lumpur <i>Siti Nazirah Kamaruddin and Mohd Zin Mohamed</i>	89
8. The Effect Of Landscape Design On The Values Of Housing Areas In Klang Valley <i>Fitrynadia Mohd Shahli, Mohd Ramzi Mohd Hussain, Izawati Tukiman and Nurbazliah Zaidin</i>	106

Session B: Vitalized Built Environment As Catalyst For Heartier Community

9. Examining The Social And Communal Values Of Urban Square Towards Families And Youth <i>Muhammad Ruzaini Roslan, Noor Aqmal Hakim Noor Azman and Khalilah Zakariya</i>	121
---	-----

10. Provision Of Spaces And Space Quality In Housing Area Towards Quality Of Life: Case Study Of Taman Melati Mastika, Gombak <i>Muhammad Faiz Abdul Malek, Wan Mohamad Saifuddin Wan Hashim, Aniza Abu Bakar, Nurhayati Abdul Malek, Rosniza Othman, Aliyah Nur Zafirah Sanusi and Mohamad Abdul Mohit</i>	135
11. Emerging Relationship Of Spatial Design And The Activity Form Of Urban Park <i>Nur Ezzati Adnan, Nor Hidayah Ramlan and Izawati Tukiman</i>	151
12. Evaluating Guidelines On Open Space And Its Impact Towards Users Satisfaction In PPR Housing Area <i>Nur Athirah Kassim, Nurlaili Firdaus Che Othman and Mahadi Katang</i>	166
13. The Quality Of Housing Environment And Green Open Space Towards Quality Of Life <i>Ainatul Izzah Ishan, Nurul 'Ain Mohd Norddin and Nurhayati Abdul Malek</i>	183
14. Physical Factors And Social Attributes For The Liveliness Of Urban Plaza At Bintang Walk, Kuala Lumpur <i>Nabila Farhah Mohd Noor, Aimi Zarak Ali and Mazlina Mansor</i>	199
15. A Review On Contribution Of Landscape Settings In Hot-Humid Region Towards Modification Of Outdoor Microclimate <i>Amira Nadhirah Mohamad, Aniza Abu Bakar and Aliyah Nur Zafirah Sanusi</i>	215
16. Urban Green Spaces In Determining The Housing Price: A Theoretical Framework <i>Mohd Nasrul Hanis Manzahari, M.Zainora Asmawi and Noorzailawati Mohd Noor</i>	233
Session C: Green Technology Innovation As An Indicator For Emerging Challenges	
17. A Study On Homestay Concepts Of Tourism Program Development In Malaysia <i>Muhammad Saufi Daud, Muhammad Saddam Husin Daud, Muhammad Faridzman Samani and Rashidi Othman</i>	245
18. Visitor Perceptions Of Water Fountains Towards Space (Indoor , Outdoor) <i>Kamil Fahmi Ali, Siti Nor Ain Nasihah Mustfar and Jasasikin Ab.Sani</i>	259
19. A Study On Urban Morphology Using GIS , Remote Sensing Technique <i>Marina Mohd Nor and Norzailawati Mohd Noor</i>	273
20. Perception Of Campus Community Towards The Application And Practicality Of Campus Farming In International Islamic University Malaysia, Gombak <i>Norul Hafizah Yusoff, Nurfaezah Ghani and Putri Haryati Ibrahim</i>	288
21. A Study On The Importance Of Material Selection For Hardscape Surface Structure <i>Mu'az Mohamed Zainal Abidin, Aiman Yusri and Mohd Ramzi Mohd Hussain</i>	303

22. The Potential Of Water Filtration System For IIUM Gombak <i>Norsyafiqah Abd Kadir, Nurkhaleda Mohd Nasir and Izawati Tukiman</i>	312
23. A Study On The Potential Of Campus Outdoor Classroom In KICT, IIUM, Gombak <i>Nur Syakirah Mohmad Sayuti, Nurul Hani Muhamad Noh and Maheran Yaman</i>	326
24. The Potential Of Outdoor Space Utilization For Learning Interaction <i>Nazliah Hani Mohd Nasir, Farha Salim and Maheran Yaman</i>	343
Session D: Culture And Art Towards Enhancing The Quality Of Life	
25. Landscape Furniture Of Royal Palaces And Malay Traditional Houses <i>Muhammad Ariff Faisal Azhar, Aizuddin Ikil Shah Ahmad Shafiee and Nor Zalina Harun</i>	359
26. A Study On Job Satisfaction And Turnover Intention Among Quantity Surveyors <i>Nik Nur Azirah Mohamed Nor and Tan Chin Keng</i>	375
27. Cultural Landscapes In Built Environment: A New Perspective <i>Nurbazliah Zaidin, Mohd Ramzi Bin Mohd Hussain, Izawati Tukiman and Fitriynadia Mohd Shahli</i>	389
28. Mangrove Forest: Degradation And Rehabilitation <i>Mazni Adibah Abd Rahman and M.Zainora Asmawi</i>	398
29. Assessing The Values And Potentials Of Public Art In Campus Public Space <i>Ainul Samihah Albohari, Annur Jalilah Ramlan and Khalilah Zakariya</i>	411
30. Islamic Landscape: The Interpretation And Viability Of Islamic Courtyard In Malaysia <i>Aisyah Mahmood, Noor Fatin Syakilla Zubir and Jasasikin Ab.Sani</i>	429
31. A Study On The Effectiveness And Utilization Of Courtyard In Kulliyyah Compound <i>Norsyahira Ariffin, Nik Nor Asiah Nik Nor Azman and Putri Haryati Ibrahim</i>	443

Published by Department of Landscape Architecture, Kulliyyah of Architecture and Environmental Design International Islamic University Malaysia Copyright©2014 Kulliyyah of Architecture and Environmental Design

ISBN 978-983-3142-32-3

All rights reserved. The authors are solely responsible for the statement made and opinions expressed in it and its publication does not imply that such statements and/or opinions are/ or reflect the views or opinions of the Editors and Publisher. While every effort has been made to trace and acknowledge copyright, however if infringement should have occurred, the Editors and Publisher tender our apologies and upon this being pointed out would take steps to make the necessary correction.

PREFACE

In the recent years, ‘going green’ has been trending as a significant move towards handling issues pertaining environmental degradation and the effects of development. In order to create a built environment that meets the needs of the present without compromising the necessities of the future, it is crucial for us to reflect back on our responsibilities as a society, or ‘*ummah*’ while protecting the environment. Hence, UMRAN2014 with the theme ‘Fostering Ecosphere in the Built Environment’ aims to expand this discussion further through disseminating new findings and ideas from multidisciplinary perspectives. The seminar format was four sessions and one keynote speaker, within eight hour time frame (9 a.m. to 5 p.m.).

The first session dealt with the ecological approach involving the characterization on how the environment influences the abundance, availability of a given resource in creating sustainable design. The second session focused on innovation of technology in a way to improve living standards of all people. The third session deliberated on the interrelationship between spaces, inequality, ethnicity and well being to enrich the quality of life regards in their needs in supporting sustainable way. The last session presented the strategies in achieving the value of uniqueness of the character of physical and form of the community by embracing the environment through conserving and preserving the beauty of culture and arts. The speakers included staff, postgraduate students and undergraduate students from related background of the borders. Substantial time was allotted for interaction between the speakers and the audience. A major goal of this event was to raise awareness of ecological living environment as a whole where it is not only to cater the ‘environment’. Indeed, environmental protection focuses more on keeping our air, land and water clean and healthy.

The first session, titled *Exceeding the Norm of Sustainability in Built Environment* upon the dynamic concept in which it is related to the action taken from different fields in the built environment by taking extra cautions when dealing with the environment by understanding the impact of each design idea in lined with the guideline of having environmental-friendly living.

The second session, titled *Green Technology Innovation as an Indicator for Emerging Challenges* focused on the creative approaches based on a new idea that can enriched well-developed built environment. This enables us to meet the ways of solving the needs of society in the manner that can continue indefinitely into the future without damaging or depleting natural resources. Speakers addressed the application of knowledge in science and technology that will bring innovations and changes in daily life and healthy environment.

The third session, titled *Vitalizes Built Environment as Catalyst for Heartier Community* dealt with improving places and spaces, including buildings, parks, and transportation systems for community well-being. Speakers tend to observe, explore

and experiment the needs of the community in supporting their lives through sustainable way. Speakers also discussed on the built environment as valuable aesthetic dimension in the society and encourage critical self-reflection to create public realm throughout society.

The last session, titled *Culture and Art towards Enhancing the Quality of Life* where speakers highlighted on the impact of culture and arts values as the mean to create sense of well-being as well as by outlining the idea of enlivening the community value and enriching culture as strategies towards better quality of life.

In conclusion, as with most environmental issues, built environment can have significant positive and negative effects. It is man-made surroundings that provide the setting for human activities, ranging from large scale of surrounding to the small personal shelters which somehow impacted the natural environment. A good design in the built environment is those that can enhance the development and well-being of future generations and supports healthier and happier communities. Thus, *Fostering Ecosphere in the Built Environments* is an inspirational description of the theme for this seminar and is able to respond effectively on embedding sustainable environmentally design approach towards enriching the quality of life.

ACKNOWLEDGMENT

In the name of Allah, the Most Gracious and the Most Merciful

First of all, we want to express all praise and thankful to Allah because of His Grace, Power and Mercy that this seminar is finally completed.

As a final note and on behalf of the organizing UMRAN2014, we wish to thank all the people involved for their interests and stimulating contributions to the success of this seminar. A special thanks to IIUM Rector, Prof. Dato' Dr. Zaleha Kamarudin and Dean of Kulliyyah of Architecture and Environmental Design, Prof. Sr. Dr. Khairuddin Abdul Rashid for giving us support in conducting UMRAN2014 this year.

We would like to take this opportunity to extend our thanks to all those academicians, organizations and experts who contributed to the deliberations in this seminar either by presenting the papers or attending as a participant. We also acknowledge the efforts put in by the officers and staff of the Department of Landscape Architecture IIUM for putting considerable efforts to make this seminar a success under the supervision and guidance from Asst. Prof. Dr. Aniza Abu Bakar, the Chairman of UMRAN2014, with Asst. Prof Dr. Nor Zalina Harun, the Head, Department of Landscape Architecture, as the advisor.

We are indebted to all seminar paper reviewers for their prompt and devoted professional evaluations that are important in conducting this seminar. The organizers are also grateful to all participants, academicians and students from the department of Landscape Architecture, Architecture, Urban and Regional Planning, Applied Art and Design and Quantity Surveying. Our warm appreciation to researches, consultants from building environment, government officials and others associated with the built environment for their contribution in the organizing of UMRAN2014 seminar. We hope this publication will help to expand broad view towards handling issues pertaining environmental degradation and become the platform for new findings and ideas from a multidisciplinary perspective, organizations and individuals in the field.

UMRAN2014 Organizing Committee