International Journal of Built Environment and Sustainability IJBES

Volume 2, Issue 1, 2015

ISSN: 1511-1369 E-ISSN:XXXX-XXXX

Published by

Faculty of Built Environment Universiti Teknologi Malaysia In collaboration with Penerbit UTM Universiti Teknologi Malaysia 81310, Johor Bahru, Malaysia



IJBES

International Journal of Built Environment and Sustainability http://ijbes.utm.my

EDITORIAL BOARD

Roslan Amirudin, Chief Editor, Universiti Teknologi Malaysia Ariva Sugandi Permana, Managing Editor, Universiti Teknologi Malaysia

International Editorial Board

ATM Nurul Amin, Northsouth University, Bangladesh Anoma Kumarasuriayar, Queensland University of Technology Awais Piracha, University of Western Sydney, Australia Henry Skates, Griffith University, Australia Jayant K. Routray, Asian Institute of Technology, Thailand Kwon Tae Ho, Semyung University, Korea Ludovic Lacrosse, Executive Chairman of Full Advantage Company, Thailand Michail Kagioglou, University of Huddersfield, United Kingdom Michihiko Shinozaki, Shibaura Institute of Technology, Japan Mohammed A. Husain, Modibbo Adama University of Technology, Nigeria Muhammad Abu Yusuf, Asian Institute of Technology, Thailand Ranjith Perera, Sultan Qaboos University, Oman Roos Akbar, Bandung Institute of Technology (ITB), Indonesia Shahed Khan, Curtin University of Technology, Australia Sudaryono Sastrosasmito, Gadjah Mada University, Indonesia Tetsu Kubota, Hiroshima University, Japan Vilas Nitivattananon, Asian Institute of Technology, Thailand

National Editorial Board

Mansor Ibrahim, International Islamic University, Malaysia Julaihi Wahid, Universiti Sains Malaysia Zalina Shari, Universiti Putra Malaysia Zahid Sultan, Universiti Teknologi Malaysia Ariva Sugandi Permana, Universiti Teknologi Malaysia Soheil Sabri, Universiti Teknologi Malaysia Ismail Said, Universiti Teknologi Malaysia Hamidah Ahmad, Universiti Teknologi Malaysia Hasanuddin Lamit, Universiti Teknologi Malaysia Mahmud Mohd Jusan, Universiti Teknologi Malaysia Raja Nafida bt Raja Shahminan, Universiti Teknologi Malaysia Tareef Hayat Khan, Universiti Teknologi Malaysia Khairul Anwar Khaidzir, Universiti Teknologi Malaysia Gurupiah Mursib, Universiti Teknologi Malaysia Wan Hashimah Wan Ismail, Universiti Teknologi Malaysia Fadhlin Abdullah, Universiti Teknologi Malaysia Nur Emma Mustapa, Universiti Teknologi Malaysia Razali Adul Hamid, Universiti Teknologi Malaysia Muzani Mustaffa, Universiti Teknologi Malaysia

Mail Address:

International Journal of Built Environment and Sustainability

Faculty of Built Environment Universiti Teknologi Malaysia 81310, Johor Bahru, Malaysia Telephone: +60-7-5537382 Email: ijbes@utm.my

Copyright © FAB, UTM, 2015 Cover Design and Type-set by: AS Permana

DISCLAIMERS:

This publication is intended to enrich the knowledge in the field of built environment and sustainability. Therefore, you may use the materials contained herein for free as long as for the use of academic purpose. However, you must cite this scientific material properly

The views expressed in this publication do not necessarily reflect the views of the Faculty of Built Environment, Universiti Teknologi Malaysia.

The IJBES is an international peer-reviewed Journal Published in collaboration between Faculty of Built Environment and Penerbit UTM

> E-ISSN: XXXX-XXXX ISSN: 1511-1369

Editorial Notes

From the desk of Chief Editor: the International Journal of Built Environment and Sustainability

Volume 2, Issue 1, 2015

Happy New Year 2015!

On behalf of the Journal Office Staff, I would like to extend my profound Happy New Year 2015 for all the readers, reviewers, editorial board members, authors and potential contributors. I wish all of you have more productive days ahead.

Our IJBES has been in Volume 2 Issue 1 in 2015, still a toddler indeed. However, we committed to consistently improve the quality of articles published by this journal. Our reviewers, editors and staff of the Journal must sacrifice their precious time to accomplish this mission. For this purpose, we set a minimum standard of quality that we considered appropriate for a newly established journal, and gradually improved the quality to the highest possible level for a refereed international journal. Our ultimate goal for this journal is getting indexed in a reputable indexing databases such as Scopus.

In this volume, we publish various topics on built environment and sustainability with the focus of study in Southeast Asian countries i.e. Malaysia, Indonesia and Vietnam with international authorship as well. However, a generic study on Islamic architecture was also prepared. In this issue, the architectural topics are more dominant in comparison to other aspects of the built environment.

Indeed, built environment as the core business of this journal, cannot be separated from the sustainability aspect when we look from the angle of sustainable development. Thus, we strongly encourage the potential contributors to submit his/her works on green building, sustainable and smart building, sustainable urban development, sustainable construction management and other relevant works that closely associated with built environment and sustainability.

To maintain the 'internationality' of the journal as it is reflected in the name of journal and editorial board memberships, the presence of international authors are mandatory. Inviting international authors has very unique challenges, considering the recentness of the journal. We must use all possible channels to 'provoke' them to submit their works in our Journal. In fact, it is not an easy task.

Despite many things to be done internally, we are now developing and improving our website (http:// ijbes.utm.my) and completing the contents of the website for more convenient online submission of the contributors as well as smooth review and editorial processes. Thus, it will expedite the process of publication. At this stage, our journal publishes three issues a year i.e. January, May and September. However, we intend to increase to four issues a year when constant supply of quality articles and tools to support friendly online article submission are secured.

Thank you and have a productive days ahead.

Johor Bahru, Malaysia 30 January 2015.

Roslan Amirudin

Chief Editor, IJBES

IJBES

Year 2, Issue 1, 2015

Table of Contents

Edito	orial Notes	iv
1.	Planners' Perception on Factors that affects Plan Implementation in Iskandar Malaysia Farid Yunos, Foziah Johar, Soheil Sabri	1-7
2.	Islamic Architecture and Arch Mohammed Mahbubur Rahman	8-16
3.	Creating the Synergy of Land Use, Transport, Energy and Environment Elements towards Climate Change Co-benefits <i>Ariva Sugandi Permana, Ranjith Perera, Norsiah Abd. Aziz, Ho Chin Siong</i>	17-28
4.	Users' Perceptions on Pedestrian Prioritized Neighborhoods: a study on Terrace Row Housing Estates in Malaysia <i>Tareef Hayat Khan, Abubakar Danladi Isah, Elahe Anjomshoaa, Soheil Sabri</i>	29-38
5.	Architect's Certification: A Problem? Yong KumWeng, Abdullah Sani Ahmad	39-47
6.	Impact of Urban Heat Island under the Hanoi Master Plan 2030 on Cooling Loads in Residential Buildings Tran Hoang Hai Nam, Tetsu Kubota and Andhang Rakhmat Trihamdani	48-61