

Emerging Technology for Sustainable Development Congress

(ETSDC 2014)

E3S Web of Conferences Volume 3 (2014)

**Bangi, Malaysia
5 August 2014**

Editors:

**M. C0Qvj wo cp'Mydin
A. K0Ej g'Ani**

ISBN: 978-1-63439-321-8

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

This work is licensed under a Creative Commons Attribution license:
<http://creativecommons.org/licenses/by/2.0/>

You are free to:

Share – copy and redistribute the material in any medium or format.

Adapt – remix, transform, and build upon the material for any purpose, even commercial.

The licensor cannot revoke these freedoms as long as you follow the license terms.

Under the following terms:

You must give appropriate credit, provide a link to the license, and indicate if changes were made.

You may do so in any reasonable manner, but not in any way that suggests the licensor endorses you or your use. The copyright is retained by the corresponding authors.

Printed by Curran Associates, Inc. (2014)

For additional information, please contact EDP Sciences – Web of Conferences
at the address below.

EDP Sciences – Web of Conferences
17, Avenue du Hoggar
Parc d'Activité de Courtabœuf
BP 112
F-91944 Les Ulis Cedex A
France

Phone: +33 (0) 1 69 18 75 75

Fax: +33 (0) 1 69 28 84 91

contact@webofconferences.org

Additional copies of this publication are available from:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: 845-758-0400
Fax: 845-758-2634
Email: curran@proceedings.com
Web: www.proceedings.com

TABLE OF CONTENTS

Satisfaction Perception of Indoor Environment of Low-cost Housing: A Case Study of Flat Taman Desa Sentosa	1
<i>M. Mohamed, W. Yusoff, T. Pratama, S. Raman</i>	
Assessment of Significant Causes to School Building Defects	8
<i>M. Mydin, N. Salim, S. Tan, N. Tawil, N. Ulang</i>	
Criteria for Affordable Housing Performance Measurement: A Review	15
<i>A. Esruq-Labin, A. Che-Ani, N. Tawil, M. Nawil, M. Mydin</i>	
Analysis on Occupants’ Satisfaction for Safety Performance Assessment in Low Cost Housing	22
<i>H. Husin, A. Nawawi, F. Ismail, N. Khalil</i>	
Outdoor Environment of Low-cost Housing: A case study of Flat Taman Desa Sentosa	29
<i>M. Mohamed, S. Raman, T. Pratama, W. Fatimah, M. Yusoff</i>	
Identifying Variables Influencing Tenant Affordability to Pay Rent in Ipoh City Council Public Housing	36
<i>N. Salleh, N. Yusof, N. Johari, Y. Talib</i>	
Biomimetic Architecture in Building Envelope Maintenance (A Literature)	43
<i>N. Salim, M. Mydin, N. Ulang</i>	
Modern Housing Tranquillity in Malaysia from the Aspect of Thermal Comfort for Humid Hot Climate Zone	50
<i>M. Baharum, M. Surat, N. Tawil, A. Che-Ani</i>	
Potential of Green Construction in Malaysia: Industrialised Building System (IBS) vs Traditional Construction Method	56
<i>M. Mydin, A. Phiuis, N. Sani, N. Tawil</i>	
A Review of Heat Transfer in Terraced Houses of Tropical Climate	63
<i>N. Azzmi, N. Jamaludin</i>	
Approach to Campus Sustainability at Universiti Kebangsaan Malaysia (UKM): A Review	69
<i>H. Kwami, A. Che-Ani, N. Tawil, M. Tahir, H. Basri</i>	
Generating Renewable Electricity from Food Waste	76
<i>M. Mydin, N. Abllah, N. Sani, N. Ghazali, N. Zahari</i>	
Critical Failure Factors in Selling Shoplots towards Sustainability of New Township Development	83
<i>N. Tawil, N. Mohamad, I. Usman, M. Tahir, M. Mydin</i>	
Towards Integrated Team Practice: A Case of Malaysian Industrialised Building System (IBS) Construction Projects	87
<i>M. Nawil, S. Nadarajan, M. Omar, M. Zaidi, M. Yasin</i>	
A Comparison of the Green Building’s Criteria	94
<i>A. Bahaudin, E. Elias, A. Saifudin</i>	
Assessment of Carbon Emission Reduction for Buildings Projects in Malaysia-A Comparative Analysis	104
<i>M. Klufallah, M. Nuruddin, M. Khamidi, N. Jamaludin</i>	
A Study on Problems Arises in Practicing Fire Drill in High Rise Building in Kuala Lumpur	112
<i>N. Zahari, A. Alimin, M. Sudirman, M. Mydin</i>	
The Effect of Construction Cost Estimating (CCE) Software on Job Performance: An Improvement Plan	119
<i>M. Mukelas, E. Zawawi, Z. Alias, K. Sukur</i>	
Contractor’s Awareness on Occupational Safety and Health (OSH) Management Systems in Construction Industry	126
<i>I. Kamar, N. Lop, N. Salleh, S. Mamter, H. Suhaimi</i>	
The Influence of Work Adjustment of Malaysian Expatriate Executives in Malaysian Construction Companies Overseas	132
<i>H. Zainol, A. Wahid, A. Ahmad, A. Tharim, N. Ismail</i>	
Evolution Sustainable Green Inner-wall with Flexible Floor Plan	140
<i>N. Tawil, H. Hussaini, H. Basri, A. Ani, M. Mydin</i>	
The Perception of Malaysian Architects towards the Implementation of Green Roofs: A Review of Practices, Methodologies and Future Research	147
<i>M. Zahir, S. Raman, M. Mohamed, M. Jamiland, Z. Nopiah</i>	
Towards the Significance of Decision Aid in Building Information Modeling (BIM) Software Selection Process	155
<i>M. Omar, M. Nawil, A. Nursal</i>	

Biomimicry of Palm Tree Leaves Form and Pattern on Building Form	161
<i>N. Salim, M. Mydin, N. Ulang</i>	
Relevant Indoor Ventilation by Windows and Apertures in Tropical Climate: A Review Study	167
<i>A. Aflaki, N. Mahyuddin, Z. Awad, M. Baharum</i>	
Indoor Thermal Environment in Tropical Climate Residential Building	172
<i>N. Jamaludin, M. Khamidi, S. Wahab, M. Klufallah</i>	
Assessment of Influential Causes of Construction Project Delay in Malaysian Private Housing from Developer’s Viewpoint	178
<i>M. Mydin, N. Sani, N. Salim, N. Alias</i>	
Green Roof Concepts as a Passive Cooling Approach in Tropical Climate- An Overview	186
<i>N. Kamarulzaman, S. Hashim, H. Hashim, A. Saleh</i>	
Lack of Energy Efficiency Legislation in the Malaysian Building Sector Contributes to Malaysia’s Growing GHG Emissions	193
<i>S. Zaid, N. Myeda, N. Mahyuddin, R. Sulaiman</i>	
Evaluation of Imminent Fire Hazards of Inheritance Ancestral Temple and Mansion in Georgetown, Penang	201
<i>M. Mydin, N. Salim, N. Sani, Y. Khaw</i>	
Author Index	