

# Conference Programme



international conference  
bangkok december 2-4 2009

INTA-SEGA  
2009

building  
innovation,  
technology  
& tradition

conference theme:  
holistic  
approaches to  
(rapid) sustainable  
architecture &  
environment

organized by:  
building technology division  
faculty of architecture  
kasetsart university  
50 paholyothin road  
bangkok thailand 10900  
tel: 02-942 8960-3 ext 262  
<http://www.arch.ku.ac.th/mbit>



The organizing committee would like to express their appreciation to the  
Thailand Convention & Exhibition Bureau (TCEB)  
for their support and cooperation in making this conference possible



# Plenary Lectures



**Lecture 1**  
**2 December 2009**  
**09:20 – 09:50 hrs**  
**Venue: Fortune 1A & B**

**Yuichiro Kodama**  
**Kobe Design University, Japan**

***Integration of Design and Technologies***  
***- Cooling Strategies and Emerging Architectures in Hot-Humid Climate Regions***

## Speaker's Biography

Prof Kodama has been long engaged in R&D and design practices on passive heating and cooling system at Building Research Institute, Ministry of Construction, Japanese Government. He is an author of prominent papers and books on Bioclimatic design, Passive Design and Sustainable design. He is known as a developer of interactive design tool for passive design and for Life cycle Analysis of buildings. He is also well known as a pioneer architect in this field and awarded by AIJ (Architectural Institute of Japan), JIA ( Japan Architects Association), and others, such as Architectural Design Commendation, Good Design Award of Japan, Environmental Architecture Design Award and etc. He used to be a vice president of PLEA (Passive and Low Energy Architecture Network) and took a chair of PLEA 1997, Kushiro Japan. His other international activities are inTA (International Tropical Architecture ) Network and IEA Energy Conservation in Building and Community Systems Program. Since 1998, he is Prof. of Kobe Design University. Dr. Eng., Architect JIA.



**Lecture 2**  
**2 December 2009**  
**09:50 – 10:20 hrs**  
**Venue: Fortune 1A & B**

**Steffen Lehmann**  
**University of New Castle, Australia**

***Green Districts: Re-conceptualizing Cities'***

## Speaker's Biography

Professor Steffen Lehmann, PhD, is an architect, urban designer, academic and author. He holds the UNESCO Chair in Sustainable Urban Development for Asia and the Pacific; he is the Chair and Professor in the School of Architecture and Built Environment, at the University of Newcastle (NSW). He is Founding Director of the s\_Lab Space Laboratory for Architectural Research and Design (Berlin-Sydney).

Steffen founded s\_Lab in 1993 to combine practice with research in pursuit of a more sustainable design ethic. In 2009, he is a Visiting Professor in the School of Design and Environment at the National University of Singapore, and DAAD-Professor at the Technical University of Munich in the Faculty of Architecture.

Professor Lehmann has been involved in sustainable design scholarly research, teaching and consultancy since the mid 1980s. For over a decade, Steffen ran his own ideas-driven architectural practice in Berlin, where he was instrumental in the future of Berlin's city centre. He has lectured in 24 countries and his writings have been translated into several languages. Steffen is well-known throughout academia, government, business and the not-for-profit sector. A registered architect in Germany, he holds degrees in architecture from the Architectural Association School in London, as well as a Master from the University of Applied Sciences Mainz, and a doctorate degree in architecture from the Faculty of Architecture at the Technical University of Berlin.

As UNESCO Chair, Steffen advocates for quality design and sustainable built outcomes, and provides strategic and independent advice to governments and municipalities worldwide, on matters relating to urban design, architecture and international best practice. His expertise is in sustainable healthy cities, 'Green Urbanism' and energy-efficient eco-buildings, with an emphasis on interdisciplinary approaches, new technology for energy and sustainability, and their social inclusion.



**Lecture 3**  
**3 December 2009**  
**09:00 – 10:00 hrs**  
**Venue: Fortune 1A & B**

**Kulapat Yantrasast**  
**WHY Architecture, USA**

Speaker's Biography

Kulapat Yantrasast, a native of Thailand, is a principal of WHY Architecture, based in Los Angeles, which he founded in 2003. Newsweek magazine's article on architecture noted WHY Architecture as one of the innovative architectural practices of the new generation. Their philosophy of the integration of creative thinking with timeless design, along with their focus on intelligent and high-quality construction, have gained them a reputation for their architectural works and projects for the arts and culture all over the country.

WHY Architecture completed the Grand Rapids Art Museum, the first new art museum in the world to receive the LEED certification for environmental design. Other current projects include many gallery designs and re-installation at the Art Institute of Chicago, the Art Bridge at the Great Wall of Los Angeles, Social and Public Art Resource Center in Venice, California and the new Tyler Museum of Art in Texas as well as many residential and commercial projects.

Prior to WHY Architecture, he was a close associate with Tadao Ando and responsible as project architect on many projects during 1996 – 2003. He was the project architect on the Modern Art Museum of Fort Worth in Texas, the ARMANI / TEATRO in Milan, the projects for the Calder Museum in Philadelphia, the Fondation Francois Pinault in Paris and the project for the Sterling and Francine Clark Institute in Williamstown that he continues to work on with Tadao Ando.

Kulapat graduated with degree in Architecture from Chulalongkorn University in Bangkok, Thailand, received his Masters and Ph.D. in Architecture from the University of Tokyo, Japan under the Scholarship from Japanese Government. He lectures regularly in the US and worldwide. Kulapat was awarded the prestigious Silpathorn Prize from the Government of Thailand in 2009 for his works and contributions to Thai contemporary cultures. He has also served, since 2005, on the Artists' Committee of American for the Arts, the nation's oldest organization for the support of the Arts in our society.



**Lecture 4**  
**3 December 2009**  
**09:00 – 09:30 hrs**  
**Venue: Fortune 1A & B**

**Joo-hwa Phillip Bay**  
**University of Western Australia, Australia**

***Social Ecology, Social Capital, Brundtland Report And Which Way Should Our Current Sustainable Design Credit Systems Grow Towards?***

Speaker's Biography

Dr. Joo-Hwa BAY has been practicing architecture in the tropical region since 1986. He has been a company director of a 100-person practice and a Council Member of the Singapore Institute of Architects, and has won several design awards. He received his PhD in Technische Universiteit Delft (TUDelft), in the Netherlands, on design thinking in environmental architecture. He researched and taught at the National University of Singapore 1997-2006. His latest design research consultancy was to advise the Singapore JTC Corporation on new urban housing for a 35,000 expatriate population at the 'new economy' hub called "one north". He currently runs a consultancy in Australia, and is an Associate Professor at the University of Western Australia.

His published works include *Contemporary Singapore Architecture*, *Journal of Southeast Asian Architecture Vol.3*, *Cognitive Biases in Design: the Case of Tropical Architecture*, 'Three tropical paradigms' in *Tropical Architecture*, Wiley Academy 2001. His latest book is *Tropical Sustainable Architecture: Social and Environmental Dimensions*, Architectural Press, London, 2006.

He chairs the International Network for Tropical Architecture (iNTA) and has been invited to speak in many international conferences and seminars in Florida, Costa Rica, Holland, Pakistan, Japan, China, Taiwan, Thailand, Indonesia, Malaysia and Singapore. He has been referee and advisor to major conferences, member of jury for design competitions, reviewer of journal papers, and examiner of PhD dissertations for the National University of Singapore, the Curtin University of Technology and three times for the University of Melbourne.



**Lecture 5**  
**3 December 2009**  
**09:30 – 10:00 hrs**  
**Venue: Fortune 1A & B**

**Johannes Widodo**  
**National University of Singapore, Singapore**

### ***Climate Change, Architectural Heritage, and Environmental Sustainability***

Dr. Johannes Widodo is an Associate Professor, Director of CASA (Centre for Advanced Studies in Architecture), and the Executive Editor of JSEAA (Journal of Southeast Asian Architecture) of the Department of Architecture, School of Design and Environment, National University of Singapore.

He received his PhD degree in Architecture from the University of Tokyo, Japan (1996), Master of Architectural Engineering degree from Katholieke Universiteit Leuven, Belgium (1988), and the first professional degree in Architectural Engineering (Ir) from Parahyangan Catholic University in Bandung, Indonesia (1984)

His area of specialization includes architecture, urban history and morphology of Southeast Asian cities, Asian modernity, and heritage conservation in Southeast Asia. He is a founder and executive core member of mAAN (modern Asian Architecture Network) and iNTA (International Network of Tropical Architecture), jury for UNESCO Asia-Pacific Heritage Awards for Culture Heritage Conservation, voting member of ICOMOS International Training Committee (CIF), executive member of ICOMOS National Committee for Indonesia, and affiliate member of UNESCO-ICCROM Asian Academy for Heritage Management.

At present he is involved as one of the research core members in the research project "Urban Circularity and Diversity: Future Possibilities for a Great Complex System to Bridge the Human Race and Global Environment", funded by the Research Institute for Humanity and Nature, Kyoto, Japan (2008-2013). His previous research project was "The Study on the Morphology and Transformations of Southeast Asian Coastal Cities in Indonesia, Malaysia, and Thailand", funded by the National University of Singapore (2005-2008).

Some of his recent publications are:

- "Morphogenesis and Hybridity of Southeast Asian Coastal Cities". In *Southeast Asian Culture and Heritage in a Globalizing World – Diverging Identities in a Dynamic Region*, ed. Rahil Ismail, Brian Shaw, and Ooi Giok Ling, Chapter 5, pp. 79-92. Surrey: Ashgate, 2009
- "Contributing to the Community's Cultural Continuum". In *Asia Conserved – Lessons Learned from the UNESCO Asia-Pacific Heritage Awards for Culture Heritage Conservation (2000-2004)*. Bangkok: UNESCO Bangkok Office, 2007
- "Modern Indonesian Architecture - Transplantation, Adaptation, Accommodation", and "Hybridization, and The Chinese Diaspora's Urban Morphology and Architecture in Indonesia". In *The Past in the Present - Architecture in Indonesia*, ed. Peter J.M. Nas. Rotterdam: NAI Publishers, 2006.
- "The Boat and The City: Chinese Diaspora and the Architecture of Southeast Asian Coastal Cities". Singapore: Marshall Cavendish International, 2004.

## Wednesday, 2 December 2009



**Session:** 1A – VE (1)  
**Date:** 2 December 2009  
**Time:** 11:00 - 12:20 hrs  
**Venue:** Fortune 1A  
**Chairs:** Phillip Bay, Saran Samantararat

- 1A-1** 11:00-11:20 hrs INTA00004-00011 *Abstract Book Ref No.: 075*  
**Vernacular Indian Housing: Approach towards Sustainability**  
*Ajay Kumar*
- 1A-2** 11:20-11:40 hrs INTA00012-00019 *Abstract Book Ref No.: 076*  
**Design Approach to Low Cost High Rise Urban Housing in Malaysia**  
*Asrul Mahjuddin Aminuddin*
- 1A-3** 11:40-12:00 hrs INTA00019-00026 *Abstract Book Ref No.: 077*  
**Celebrating Rainwater Disposal: The Architectural Potential of Rain-Shedding**  
*Kok Ming Cheah, Chiaw Meng Goh*
- 1A-4** 12:00-12:20 hrs INTA00087-00122 *Abstract Book Ref No.: 089*  
**Ethnic Identity of Karen Sgaw from Household Stove**  
*Saran Samantararat*
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**Session:** 1B – AT (1)  
**Date:** 2 December 2009  
**Time:** 11:00 - 12:20 hrs  
**Venue:** Fortune 1B  
**Chairs:** Joseph Khedari, Sopa Visitsak

- 1B-1** 11:00-11:20 hrs INTA00047-00064 *Abstract Book Ref No.: 004*  
**Study on Radiation Panel Cooling System with Natural Cross Ventilation under a Non-Uniform Thermal Environment**  
*Jeongil Kim, Shinsuke Kato*
- 1B-2** 11:20-11:40 hrs INTA00092-00140 *Abstract Book Ref No.: 005*  
**Validation of the Heat Transfer Coefficient on the Wall Using CFD Simulation and Measurements**  
*Sihwan Lee, Shinsuke Kato*
- 1B-3** 11:40-12:00 hrs INTA00149-00220 *Abstract Book Ref No.: 015*  
**The Study on the facade Integrated Solar Collector for Zero Energy Solar House**  
*Whui-Dong Kim, Nam-Choon Baek*
- 1B-4** 12:00-12:20 hrs INTA00149-00222 *Abstract Book Ref No.: 016*  
**The Design and Performance of Solar Thermal/Ground Source Heat Pump Hybrid System for Zero Energy Solar House**  
*Nam-Choon Baek, E. S. Yoon, J. K. Lee, C. K. Yu, JongHo Yoon, U-Cheul Shin*
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**Session:** 1C – BI (1)  
**Date:** 2 December 2009  
**Time:** 11:00 - 12:20 hrs  
**Venue:** Fortune 2  
**Chairs:** Bart Lambregts, Sani Limthongsakul

- 1C-1** 11:00-11:20 hrs INTA00058-00108 *Abstract Book Ref No.: 033*  
**A Study on Design and Maintenance of Constructed Wetland in Campus**  
*Meng-Heng Shih, Hsien-Te Lin, Yi-Jiung Lin*
- 1C-2** 11:20-11:40 hrs INTA00072-00155 *Abstract Book Ref No.: 035*  
**A Morphological Analysis of the Waterfront in City Centre, Kuala Lumpur**  
*Nurul Syala Abdul Latip, Tim Heath, Mohd Shahir Liew*
- 1C-3** 11:40-12:00 hrs INTA00077-00154 *Abstract Book Ref No.: 037*  
**Significance of "Devarai": Sacred groves in Indian Cultural Landscape**  
*Asmita Divekar, Ketaki Ghate*
- 1C-4** 12:00-12:20 hrs INTA00118-00054 *Abstract Book Ref No.: 041*  
**Conservation Strategy for Enhancing Cultural Diversity for the City of Aurangabad, Maharashtra, India**  
*Anurag Kashyap, Shubhada Kamalapurkar*
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**Session:** 2A – VE (2)  
**Date:** 2 December 2009  
**Time:** 13:20 - 15:20 hrs  
**Venue:** Fortune 1A  
**Chairs:** Pattaranan Takkanon, Luke Yeung

- 2A-1** 13:20-13:40 hrs INTA00022-00030 *Abstract Book Ref No.: 079*  
**Traditional Indian Villages: Need of Innovative Technology for a Better Habitat**  
*B. K. Das, F. Rajak*
- 2A-2** 13:40-15:00 hrs INTA00052-00088 *Abstract Book Ref No.: 083*  
**Regional Climate, Local Culture and Imported Style: French Colonial Villas in Dalat, Vietnam**  
*Le Thi Hong Na, Jin-Ho Park*
- 2A-3** 14:00-14:20 hrs INTA00086-00123 *Abstract Book Ref No.: 088*  
**Progressing Practices of Sustainable School Design**  
*Sant Chansomsak, Brenda Vale*
- 2A-4** 14:20-14:40 hrs INTA00100-00112 *Abstract Book Ref No.: 093*  
**Participatory Design: A Creative Approach to the Sustainable Built Environment**  
*Supreeya Wungpatcharapon*
- 2A-5** 14:40-15:00 hrs INTA00105-00099 *Abstract Book Ref No.: 095*  
**Contemporary Resurgence of Mud as a Component of Architecture**  
*Vinayak Tripathi*
- 2A-6** 15:00-15:20 hrs INTA00155-00229 *Abstract Book Ref No.: 101*  
**Workshop: Problem-Based Learning For Sustainable Architecture Education**  
*Pattaranan Takkanon, Luke Yeung*
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**Session:** 2B – AT (2)  
**Date:** 2 December 2009  
**Time:** 13:20 - 15:40 hrs  
**Venue:** Fortune 1B  
**Chairs:** Joseph Khedari, Sopa Visitsak

**2B-1** 13:20-13:40 hrs INTA00020-00028 *Abstract Book Ref No.: 001*  
**Solar Technologies Integrated into Sustainable Schoolhouses. Energy Retrofit for the "Mattia Preti", Reggio Calabria, Italy**  
*Consuelo Nava, Raffaele Astorino*

**2B-2** 13:40-14:00 hrs INTA00154-00227 *Abstract Book Ref No.: 021*  
**Window Vent Set: A Simple Solution To Reduce Indoor Temperature And Improve Air Quality**  
*Joseph Khedari, Sopa Visitsak, Narong Vatcharasathien, Vorakamol Boonyayothin, Jongjit Hirunlabh*

**2B-3** 14:00-14:20 hrs INTA00154-00228 *Abstract Book Ref No.: 022*  
**Convertible Shading Set For Glass Window**  
*Joseph Khedari, Danucha Luckthong, Sopa Visitsak, Narong Vatcharasathien, Vorakamol Boonyayothin, Jongjit Hirunlabh*

**2B-4** 14:20-14:40 hrs INTA00157-00231 *Abstract Book Ref No.: 020*  
**Prescribed Ventilation Control Approach For Air-Conditioned Building In Thailand**  
*Vorakamol Boonyayothin, Jongjit Hirunlabh, Pojanie Khummongkol, Sombat Teekasap, U-Cheul Shin, Joseph Khedari*

**2B-5** 14:40-15:00 hrs INTA00142-00185 *Abstract Book Ref No.: 012*  
**An Innovative Photovoltaic Shading Device for Townhouses in Thailand**  
*Sopa Visitsak, Anon Pondongnok, Joseph Khedari*

**2B-6** 15:00-15:20 hrs INTA00152-00225 *Abstract Book Ref No.: 019*  
**An Appropriate Glass Double Skin Facade (DSF) For Retrofitting Buildings In Thailand**  
*Suriya Koonsawasdikool, Sopa Visitsak, Joseph Khedari*

**2B-7** 15:20-15:40 hrs INTA00144-00209 *Abstract Book Ref No.: 013*  
**An Experimental Investigation of Roof Solar Collector with Reflective Sheet**  
*Tika Bunnag, Withaya Puangsombut*

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**Session:** 2C – BI (2)  
**Date:** 2 December 2009  
**Time:** 13:30 - 15:20 hrs  
**Venue:** Fortune 2  
**Chairs:** Bart Lambregts, Pasinee Sunakorn

**2C-1** 13:20-13:40 hrs INTA00015-00022 *Abstract Book Ref No.: 024*  
**Building Integrated Agriculture: Utilising Rooftops for Sustainable Food Crop Cultivation in Singapore**  
*Astee Lim, Nirmal T. Kishnani*

**2C-2** 13:40-14:00 hrs INTA00038-00065 *Abstract Book Ref No.: 027*  
**Reinventing Eden: Introducing Nature into Urban Singapore**  
*Hau Yeow Koh, Nirmal T. Kishnani*

**2C-3** 14:00-14:20 hrs INTA00085-00125 *Abstract Book Ref No.: 039*  
**The Green Storey: Analyzing Green Space Quality in Condominium**  
*Sani Limthongsakul*

**2C-4** 14:20-14:40 hrs INTA00054-00096 *Abstract Book Ref No.: 032*  
**Traditional Cooling System in Hot Regions of Iran Emphasise in Sustainable Architecture**  
*Mahnaz Talebi*

**2C-5** 14:40-15:00 hrs INTA00029-00041 *Abstract Book Ref No.: 026*  
**Luminous Environment and Occupant Satisfaction at Open-plan Office (Case Study: Jawa Pos Office, Grha Pena 4th Floor, Surabaya)**  
*Esti Asih Nurdiah, Asri Dinapradipta*

**2C-6** 15:00-15:20 hrs INTA00113-00067 *Abstract Book Ref No.: 040*  
**Research on Natural Lighting of Traditional Dwelling in Southeastern Hubei Province**  
*Zhang Qian, Wang Huan*

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## Thursday, 3 December 2009



**Session:** 3A – SY (1)  
**Date:** 3 December 2009  
**Time:** 10:40 - 12:00 hrs  
**Venue:** Fortune 1A  
**Chairs:** Joseph Khedari, Sopa Visitsak

**3A-1** 10:40-11:00 hrs INTA00115-00058 *Abstract Book Ref No.: 069*  
**Urban transformation: The Role of Sustainable Urban Sub-centres within the Network City**  
*Steffen Lehmann*

**3A-2** 11:00-11:20 hrs INTA00059-00110 *Abstract Book Ref No.: 064*  
**Designing from the Future: A Design Narrative for Environmental Problem Solving**  
*Lisa 'Leo' George*

**3A-3** 11:20-11:40 hrs INTA00033-00048 *Abstract Book Ref No.: 061*  
**Environmental Design and Performance of the Public Library of Le Tampon, Reunion Island**  
*Maneeraj Cowlessur, Francois Garde, George Baird*

**3A-4** 11:40-12:00 hrs INTA00034-00051 *Abstract Book Ref No.: 062*  
**Towards Acceptable Walkable Distances of Neighborhood Activities in Laguna**  
*Ma. Concepcion V. Roxas*

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**Session:** 3B – MC (1)  
**Date:** 3 December 2009  
**Time:** 10:40 - 12:00 hrs  
**Venue:** Fortune 1B  
**Chairs:** Henry Feriadi, Supreeya Wungpatcharapon

**3B-1** 10:40-11:00 hrs INTA00147-00210 *Abstract Book Ref No.: 056*  
**The Importance of People and Individual Behaviour in the Move to Sustainability**  
*Robert Vale, Brenda Vale*

**3B-2** 11:00-11:20 hrs INTA00093-00137 *Abstract Book Ref No.: 054*  
**Evolving Sustainability Capability: A User Manual for Encouraging Moves to a Sustainable Future**  
*Sirimas Hengrasmee, Brenda Vale*

**3B-3** 11:20-11:40 hrs INTA00120-00047 *Abstract Book Ref No.: 055*  
**Tropicalizing Rammed Earth Viability of Rammed Earth in Singapore**  
*Lee Shiuh Liang, Cheah Kok Ming*

**3B-4** 11:40-12:00 hrs INTA00153-00226 *Abstract Book Ref No.: 057*  
**A Study of Cost and Economical Feasibility for Energy Saving House in Thailand**  
*Jaran Ratanachotinun, Jongjit Hirunlabh, Nat Kasayapanand, Sopa Visitsak, Sombat Teekasap and Joseph Khedari*

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**Session:** 3C – BI (3)  
**Date:** 3 December 2009  
**Time:** 10:40 - 12:00 hrs  
**Venue:** Fortune 2  
**Chairs:** Pattaranan Takkanon, Kriangsak Mansatiansin

**3C-1** 10:40-11:00 hrs INTA00052-00085 *Abstract Book Ref No.: 031*  
**Basic Principles of Passive Design Method for High-rise Housing in Vietnam**  
*Thi Hong Na Le, Jin-Ho Park*

**3C-2** 11:00-11:20 hrs INTA00119-00050 *Abstract Book Ref No.: 042*  
**A Study on Light Trespass from Advertising Signs in Mixed Residential Commercial District**  
*Kuang-Yu Huang, Hsien-Te Lin*

**3C-3** 11:20-11:40 hrs INTA00126-00164 *Abstract Book Ref No.: 043*  
**A Simplified Assessment Method of Summer Outdoor Ventilation for Community Environment in Taiwan**  
*I-An Hung, Hsien-Te Lin, Jung-Hua Chou*

**3C-4** 11:40-12:00 hrs INTA00081-00142 *Abstract Book Ref No.: 038*  
**Bangladesh Traditional House is an Energy Saving Architecture**  
*Rumana Rashid, Mohd. Hamdan Bin Ahmed*

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**Session:** 4A – SY (2)  
**Date:** 3 December 2009  
**Time:** 13:00 - 15:00 hrs  
**Venue:** Fortune 1A  
**Chairs:** Pattaranan Takkanon, Siradech Surit

**4A-1** 13:00-13:20 hrs INTA00093-00135 *Abstract Book Ref No.: 067*  
**The Environmentally Friendly Household: An Alternative to the Completely Self-sufficient House**  
*Sirimas Hengrasmee, Brenda Vale*

**4A-2** 13:20-13:40 hrs INTA00067-00134 *Abstract Book Ref No.: 065*  
**Green Building Rating or Sustainable Building Rating: What Should be the Choice for Malaysia's Residential Buildings**  
*Muhammad Azzam Ismail, Deo K. Prasad*

**4A-3** 13:40-14:00 hrs INTA00117-00055 *Abstract Book Ref No.: 070*  
**The Service Function of the Eco-Community Evaluation System of Taiwan**  
*Hui-Wen Chuang, Hsien-Te Lin*

**4A-4** 14:00-14:20 hrs INTA00037-00062 *Abstract Book Ref No.: 063*  
**Measuring Sustainability: Carbon or Land?**  
*Han Thuc Tran, Brenda Vale, Robert Vale*

**4A-5** 14:20-14:40 hrs INTA00156-00230 *Abstract Book Ref No.: 074*  
**Topology Optimization: Reviews, Case Studies And Simplification**  
*Siradech Surit*

**4A-6** 14:40-15:00 hrs INTA00146-00208 *Abstract Book Ref No.: 073*  
**An Intelligent Building Model for Sustainable Architecture in a Mechanism of Open Systems Evolution**  
*Yan Gu, Rob Evans, Frazer John*

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**Session:** 4B – AT (3)  
**Date:** 3 December 2009  
**Time:** 13:00 - 15:20 hrs  
**Venue:** Fortune 1B  
**Chairs:** Joseph Khedari, Sopa Visitsak

**4B-1** 13:00-13:20 hrs INTA00145-00207 *Abstract Book Ref No.: 014*  
**Enhancement the Thermal Performance of Solar Chimney Window by PV Ventilation System**  
*Withaya Puangsombut, Eakkasak Susakunphaisan*

**4B-2** 13:20-13:40 hrs INTA00023-00031 *Abstract Book Ref No.: 003*  
**Impact of Neighbouring Building on Estimating Indoor and Outdoor Ventilation**  
*Bin Su*

**4B-3** 13:40-14:00 hrs INTA00095-00128 *Abstract Book Ref No.: 006*  
**Steve Tool: A Web Application of Singapore Air Temperature Prediction Model**  
*Steve Kardinal Jusuf, Wong Nyuk Hien*

**4B-4** 14:00-14:20 hrs INTA00095-00131 *Abstract Book Ref No.: 007*  
**Influence of Water Feature on Temperature Condition in Hot Humid Climate**  
*Steve Kardinal Jusuf, Wong Nyuk Hien, Nedyomukti Imam Syafii*

**4B-5** 14:20-14:40 hrs INTA00110-00075 *Abstract Book Ref No.: 009*  
**Design Concept and Thermal Performance of Passive Solar Cooling Building with Wind Tower and Double Envelope: The School of Architecture and Asian Music School of Taiwan National Tainan Art University**  
*Yoshio Kato, Shu-cheng Tseng, Zhiduan Huang*

**4B-6** 14:40-15:00 hrs INTA00110-00078 *Abstract Book Ref No.: 010*  
**A Study for the Possibilities of Passive Solar Cooling Design Methods Comparing the Traditional Ways Available and Innovative Ones**  
*Yoshio Kato*

**4B-7** 15:00-15:20 hrs INTA00138-00178 *Abstract Book Ref No.: 011*  
**Overlooked Energy-saving Opportunities in Thermal Comfort Standards**  
*Richard Aynsley*

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**Session:** 4C – VE (3)  
**Date:** 3 December 2009  
**Time:** 13:00 - 14:40 hrs  
**Venue:** Fortune 2  
**Chairs:** Phillip Bay, Luke Yeung

**4C-1** 13:00-13:20 hrs INTA00045-00095 *Abstract Book Ref No.: 081*  
**The Mexican Palapa**  
*Jaime Rios, Brenda Vale, Robert Vale*

**4C-2** 13:20-13:40 hrs INTA00079-00149 *Abstract Book Ref No.: 086*  
**Vernacular Architecture, Permanent and Temporary Settlements of the Southern Zagros**  
*Reza Garshasbi*

**4C-3** 13:40-14:00 hrs INTA00081-00136 *Abstract Book Ref No.: 087*  
**Climate Responsive Features of the Bangladesh Traditional Architecture of Houses**  
*Rumana Rashid, Mohd Hamdan Ahmad*

**4C-4** 14:00-14:20 hrs INTA00099-00114 *Abstract Book Ref No.: 092*  
**What Can a House Be? The Auspicious Thai Houses**  
*Supakit Yimsrual*

**4C-5** 14:20-14:40 hrs INTA00123-00038 *Abstract Book Ref No.: 097*  
**Informal Settlements as a Specific Character of Vernacular Architecture in Urban Form**  
*Paulus Bawole*

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## Friday, 4 December 2009



**Session:** 5A – SY (3)  
**Date:** 4 December 2009  
**Time:** 10:40 - 11:40 hrs  
**Venue:** Fortune 1A  
**Chairs:** Pattaranan Takkanon, Sopa Visitsak

**5A-1** 10:40-11:00 hrs INTA00140-00182 *Abstract Book Ref No.: 072*  
**Sustainable Design Approaches - A Historical Review**  
*Nikky Fleurke*

**5A-2** 11:00-11:20 hrs INTA00118-00053 *Abstract Book Ref No.: 071*  
**Landscape Approach for Sustainable Development : Case Study of Bhimashankar, Maharashtra, India**  
*Kamalapurkar Shubhada*

**5A-3** 11:20-11:40 hrs INTA00011-00018 *Abstract Book Ref No.: 059*  
**The Applicability of Established Environmental Assessment Tools (EAT) for Low Cost High Rise Housing in Malaysia**  
*Asrul M. R. Aminuddin*

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**Session:** 5B – MC (2)  
**Date:** 4 December 2009  
**Time:** 10:40 - 11:40 hrs  
**Venue:** Fortune 1B  
**Chairs:** Henry Feriadi, Singh Intrachooto

**5B-1** 10:40-11:00 hrs INTA00081-00139 *Abstract Book Ref No.: 053*  
**Rooftop Garden and Greening of Contemporary Modern Building in Bangladesh at the Context of Dense Dhaka City**  
*Rumana Rashid, Mohd Hamdan Ahmad*

**5B-2** 11:00-11:20 hrs INTA00026-00035 *Abstract Book Ref No.: 050*  
**Reinventing Traditional Technologies for Sustainability: Contemporary Earth Architecture of Sri Lanka**  
*Ranjith Dayaratne*

**5B-3** 11:20-11:40 hrs INTA00050-00073 *Abstract Book Ref No.: 051*  
**Reducing Greenhouse Gases in Existing Tropical Cities**  
*John Shiel, Steffen Lehmann, Jamie Mackee*

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## Daily Highlights



### Wednesday 2 December 2009

08:30 – 09:00 hrs  
**Opening Ceremony**

09:00 – 10:00 hrs  
**Plenary Lectures 1 & 2 by**

- Dr Yuishiro Kodama
- Dr Steffen Lehmann

15:40 – 16:40 hrs  
**Welcome Snack & Poster Session**

### Thursday 3 December 2009

09:00 – 10:00 hrs  
**Plenary Lecture 3 by**

- Dr Kulapat Yantrasast

16:00 – 17:30 hrs  
**Panel Discussion**

### Friday 4 December 2009

10:00 – 11:00 hrs  
**Plenary Lectures 4 & 5 by**

- Dr Joo-hwa (Phillip) Bay
- Dr Johannes Widodo

11:00 – 12:00 hrs  
**Closing Ceremony**



## Programme Overview

Time	2 December 2009	3 December 2009	4 December 2009
08:00	Registration		
09:00	<b>Opening Ceremony</b>	<b>Plenary Lecture 3</b>	<b>Plenary Lecture 4</b>
09:20	<b>Plenary Lecture 1</b>		<b>Plenary Lecture 5</b>
09:30			
09:50	<b>Plenary Lecture 2</b>		
10:00	Tea Break		
10:20	Tea Break	<b>Parallel Sessions</b>	<b>Parallel Sessions</b>
10:40			<b>Closing Ceremony</b>
11:00	<b>Parallel Sessions</b>		
11:20			
11:40		Lunch	
12:00	<b>Lunch</b>	<b>Parallel Sessions</b>	
12:20			
12:40			
13:00			
13:20	<b>Parallel Sessions</b>	<b>Parallel Sessions</b>	
13:40			
14:00			
14:20			
14:40			
15:00			
15:20	Tea Break	<b>Panel Discussion</b>	
15:40	<b>Welcome Snack &amp; POSTER Session</b>		
16:00			
16:20			
16:40			
17:00			