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CONFERENCE SCHEDULE OVERVIEW

Harbour Grand Kowloon, Hung Hom, Kowloon, Hong Kong

14 Dec 2010 (Tuesday)

Time	Event	Venue
18:00-18:30	Registration	Salon I
18:30-20:00	Welcome Cocktail Party	Salon I

15 Dec 2010 (Wednesday)

Time	Event				
08:00-08:30	Pre-function Area Registration				
08:30-09:00	Grand Ballroom Opening Ceremony				
09:00-09:45	Grand Ballroom Keynote Lecture I				
09:45-10:30	Grand Ballroom Keynote Lecture II				
10:30-10:50	Tea Break				
10:50-11:35	Grand Ballroom Keynote Lecture III				
11:35-12:20	Grand Ballroom Keynote Lecture IV				
12:20-14:00	Whampoa Lounge and Salon I Lunch				
	Mini-symposia and Parallel Sessions				
	Ballroom I	Ballroom II	Salon I	Salon II	Salon III
14:00-15:15	Session 1A Mini-symposium on Modelling for Sustainable Urban Transportation – (I)	Session 1B Mini-symposium on Low Carbon Cities – (I)		Session 1D Mini-symposium on Managing Air Pollution in Mega-cities	Session 1E Forum on Sustainable Energy Supply in Hong Kong
15:15-15:30	Tea Break				
15:30-17:00	Session 2A Mini-symposium on Modelling for Sustainable Urban Transportation – (II)	Session 2B Mini-symposium on Low Carbon Cities – (II)	Session 2C Urban Informatics for Sustainability	Session 2D Monitoring of Environmental Changes	Session 2E Mini-symposium on Renewable Energy Applications - (I)

16 Dec 2010 (Thursday)

Time	Event				
08:00-08:30	Pre-function Area Registration				
	Mini-symposia and Parallel Sessions				
	Ballroom I	Ballroom II	Salon I	Salon II	Salon III
08:30-10:15	Session 3A Urban Wastes Treatment and Recycling – (I)	Session 3B Urban Planning for Sustainability – (I)	Session 3C Sustainable Materials and Structures – (I)	Session 3D Sustainable Urban Transportation	Session 3E Energy-efficient & Healthy Built Environment – (I)
10:15-10:35	Tea Break				
10:35-11:35	Session 4A Urban Housing Provision		Session 4C Mini-symposium on Wastes Management and Recycling – (I)	Session 4D Mini-symposium on Building Information Modelling and Changing Construction Practices – (I)	Session 4E Energy-efficient & Healthy Built Environment – (II)
11:35-12:35	Session 5A Sustainable Urban Infrastructure		Session 5C Mini-symposium on Wastes Management and Recycling – (II)	Session 5D Mini-symposium on Building Information Modelling and Changing Construction Practices – (II)	Session 5E Urban Heritage and Redevelopment
12:35-14:00	Whampoa Lounge and Ballroom II Lunch				
14:00-15:30	Session 6A Urban Pollution Control		Session 6C Mini-symposium on Wastes Management and Recycling – (III)	Session 6D Mini-symposium on Building Information Modelling and Changing Construction Practices – (III)	Session 6E Energy-efficient & Healthy Built Environment – (III)
15:30-15:50	Tea Break				
15:50-18:00	Session 7A Sustainable Design and Construction Practices	Session 7B Urban Planning for Sustainability – (II)	Session 7C Mini-symposium on Wastes Management and Recycling – (IV)	Session 7D Mini-symposium on Building Information Modelling and Changing Construction Practices – (IV)	Session 7E Mini-symposium on Industrialization of Housing
19:00-19:30 19:30-22:00	Grand Ballroom Welcome cocktail Conference Banquet				

17 Dec 2010 (Friday)

Time	Event				
08:00-08:30	Pre-function Area Registration				
	Mini-symposia and Parallel Sessions				
	Ballroom I	Ballroom II	Salon I	Salon II	Salon III
08:30-10:15	Session 8A Strategies for Sustainable Urbanization – (I)	Session 8B Effect of Urbanization on Environment	Session 8C Conservation and Reuse	Session 8D Sustainable Materials and Structures – (II)	Session 8E Mini-symposium on Renewable Energy Applications – (II)
10:15-10:35	Tea Break				
10:35-12:05			Session 9C Sustainable Buildings	Session 9D Mini-symposium on Remote Sensing of Urban Environment (Applications)	Session 9E Mini-symposium on Complexities in Managing Mega Construction Projects – (I)
12:05-13:05	Grand Ballroom Lunch				
13:05-14:35			Session 10C Sustainable Urban Living	Session 10D Mini-symposium on Remote Sensing of Urban Environment (Techniques Development)	Session 10E Mini-symposium on Complexities in Managing Mega Construction Projects – (II)
14:35-14:55	Tea Break				
14:55-17:00	Session 11A Strategies for Sustainable Urbanization – (II)	Session 11B Energy-efficient & Healthy Built Environment – (IV)	Session 11C Urban Wastes Treatment and Recycling – (II)		

CONFERENCE PROGRAMME

Harbour Grand Kowloon, Hung Hom, Kowloon, Hong Kong

14 Dec 2010 (Tuesday)

Registration and Welcome Cocktail Party

Salon I

18:00-18:30 Registration

18:30-20:00 Reception Speech: Prof. J.G. Teng, Dean, Faculty of Construction and Land Use
The Hong Kong Polytechnic University

The Registration Counter will be open from 18:00 to 20:00 on 14 Dec 2010 (Tuesday), and all delegates are invited to register for the Conference and to meet together with other delegates at an informal Welcome Cocktail Party starting at 18:30.

15 Dec 2010 (Wednesday)

Registration

08:00-17:00 The Registration Counter will be open from 08:00 to 17:00.

Opening Ceremony

Grand Ballroom

08:30-09:00 Welcome Address: Prof. Timothy W. Tong, President
The Hong Kong Polytechnic University

Opening Address: Prof. J. G. Teng, Dean, Faculty of Construction and Land Use
The Hong Kong Polytechnic University

Keynote Sessions

Grand Ballroom

Keynote Lectures I & II

Chair: J. G. Teng, Faculty of Construction and Land Use
The Hong Kong Polytechnic University

09:00-09:45 Sustainable Urbanization in China
Baoxing Qiu

09:45-10:30 High Density Development – A Balancing Act Hong Kong's Experience
Carrie Lam Cheng Yuet-ngor

10:30-10:50 Tea Break

Keynote Lectures III & IV

Chair: J. M. Ko, Faculty of Construction and Land Use
The Hong Kong Polytechnic University

10:50-11:35 Photovoltaics Solar Conversion for Sustainable Energy Supply
Martin A. Green

11:35-12:20 Innovative Construction Technologies for Sustainable Development
Samuel Yen-Liang Yin (to be presented by Willie Lai)

12:20-14:00 **Conference Lunch – Whampoa Lounge and Salon I**

Mini-symposia and Parallel Sessions

Ballroom I

Session 1A: Mini-symposium on Modelling for Sustainable Urban Transportation – (I)

Chair: William H.K. Lam

14:00-14:30 **Invited Presentation**

Urban Transport and Sustainability: The Key Challenges

Anthony D. May

14:30-14:45 On the Path Towards Sustainable Transportation for Gaming-led Tourism City: The Case of Macao

I.M. Wan and K.I. Wong

14:45-15:00 Ridesharing in Bangkok: Situation, Obstacles, and Opportunity

Jittichai Rudjanakanoknad

15:15-15:30 Tea Break

Session 2A: Mini-symposium on Modelling for Sustainable Urban Transportation – (II)

Chair: William H.K. Lam

15:30-15:45 Toll Competition and Dynamic Toll Setting Strategies

Simon Shepherd

15:45-16:00 Effect on Travellers' Activities and Environmental Impacts by Introducing a Next-Generation Personal Transport System in a City

Takamasa Iryo, Takahiko Kusakabe, Ippei Yamanaka and Yasuo Asakura

16:00-16:15 Application of MCDM on High Potential City Bus Routes in Taichung Metropolitan

H.S. Hou, Y.C. Chen and Percy Hou

16:15-16:30 A New Approach for the Evaluation of Walk Environment

Sooil. Lee, Seungjae Lee, Hyeokjun Son and Yongjin Joo

16:30-16:45 Public Appraisal of Air Pollution Index - A Case Study in Hong Kong

K.L. Mak, Linh Thi Vuong Pham and Wing-tat Hung

Ballroom II

Session 1B: Mini-symposium on Low Carbon Cities – (I)

Chair: Edwin H.W. Chan

14:00-14:30 **Invited Presentation**

Low-to-no Carbon City: Is There a Lesson from Potsdamer Platz Berlin for the Rapid Urban Transformation of Shanghai?

Steffen Lehmann

14:30-14:45 Carbon Emissions and Well-being Performance in China

Wei Chen, Da-jian Zhu, Edwin Hon-wan Chan and Ying Xu

14:45-15:00 Towards Carbon Neutral City Planning: Rotterdam Energy Approach and Planning (REAP) A Tool for Urban Planners in Accommodating Flows of Energy, Water, Materials and Natural Resources

N.M.J.D. Tillie, D.R. Doepel, and A.A.J.F. van den Dobbelsteen

15:00-15:15 Development of Low Carbon City in Malaysia - The Case of Development Corridor of Iskandar Malaysia

Ho Chin Siong, Matsuoka Yuzuru, Janice Simson and Gomi Kei

15:15-15:30 From Global Climate Change to Low Carbon Cities - The Triple Bottom Line Revisit

Wynn Chi Nguyen Cam

15:30-15:45 Tea Break

Session 2B: Mini-symposium on Low Carbon Cities – (II)

Chair: Edwin H.W. Chan

15:45-16:05 Round Table Discussion

16:05-16:10 Energy Regulations Require Stricter Enforcement as a Response to Climate Change

H. J. Visscher, L. Itard and O. Guerra Santin

- 16:10-16:15 Designing for Future Building Adaptive Reuse Using adaptSTAR
Sheila Conejos and Craig Langston
- 16:15-16:20 Critical Factors for Sustainable Adaptive Reuse of Heritage Buildings
Esther H.K. Yung and Edwin H.W. Chan
- 16:20-16:25 Comparative Study on Sustainability of Urban Infill Development of Shenzhen and Wuhan in China
Wenli Dong, Steffen Lehmann and Jamie Mackee
- 16:25-16:30 Climate Change in Vietnam: New Consumers and Energy – Efficient Housing as Opportunities for Sustainable Urban Development
Michael A. Waibel
- 16:30-16:40 Green Space and Sustainable Urban Planning - The Malaysian Case
Foziah Johar and Siti Syamimi Omar
- 16:40-17:00 Round Table Discussion

Salon I

Session 2C: Urban Informatics for Sustainability

Chair & Co-chair: Jianping Zhang and Xiao-li Ding

- 15:30-16:00 **Invited Presentation**
Integrating BIM with System Dynamics as a Decision-Making Framework for Sustainable Building Design and Operation
Lawrence C. Bank, Michael McCarthy, Benjamin P. Thompson and Carol C. Menassa
- 16:00-16:15 Integrating a GIS based Land-use Transport Model and Climate Change Impact Assessment Analysis for Sustainable Urban Development of London to 2100
Alistair Ford, Stuart Barr, Richard Dawson, Michael Batty and Jim Hall
- 16:15-16:30 Spatio-temporal Dynamics of City-size Distribution in the Yangtze River Delta Since 1980s
Y. X. Pu, J. S. Ma, G. Chen and J. C. Wang
- 16:30-16:45 Towards the Use of a 3-D Geo-Database in Investigating Nocturnal Urban Temperature Variation in Hong Kong
Liang Chen, Xipo An and Edward Ng
- 16:45-17:00 Impact of Information Technology Industries on Urban Form: A Case Study of Indiranagar in Bangalore
Krishne Gowda, M. N. Shobha and M. V. Sridhara

Salon II

Session 1D: Mini-symposium on Managing Air Pollution in Mega-cities

Chair: Prof. Tao Wang

- 14:00-14:15 The Dependence of Ozone Production Rate on Ozone Precursors in Pearl River Delta and Beijing Area, China
Yuanhang Zhang, Keding Lu and Xuesong Wang
- 14:15-14:30 Estimation of OH Reactivity of Unidentified VOCS Detected by GC-FID Analysis
T. Sato, S. Kato and Y. Kajii
- 14:30-14:45 Long-term Measurement of Various Volatile Organic Compounds and Air Quality Assessment Using OH Reactivity and Ozone Formation Potential in Sub-urban Area of Tokyo
S. Kato, Y. Tajima, J. Suthawaree and Y. Kajii
- 14:45-15:00 Influential Factors and Ozone Formation Potential of Volatile Organic Compounds in Suburban Bangkok, Thailand
J. Suthawaree, Y. Tajima, S. Kato, A. Kunchornyakong, A. Sharp and Y. Kajii
- 15:00-15:15 Measurements of OH Reactivity and Analysis of Trace Species in Gasoline Vehicular Exhaust
N. Kamei, Y. Nakashima, K. Yamazaki, T. Osada, K. Miyazaki, K. Ishii, H. Konno and S. Kobayashi
- 15:15-15:30 Atmospheric Oxidants and Aerosols Measured During a High Pollution Season in Urban Hong Kong
Tao Wang and the Study Team

15:30-15:45 Tea Break

Session 2D: Monitoring of Environmental Changes

Chair & Co-chair: Y. Boquet and Jose Duchesne

- 15:45-16:00 Halogenated Hydrocarbons in the Atmosphere of Pearl River Delta Region, Southern China
H. Guo, X. M. Wang, I. J. Simpson, D. R. Blake, H. R. Cheng and S. M. Saunders
- 16:00-16:15 Preliminary Evaluation of Airborne Pollutants at a Livestock Farm in the Pearl River Delta Region, China
Zhenhao Ling, Hai Guo and Sichun Zou
- 16:15-16:30 Measurement of Air Pressure Characteristics in Drainage Stacks
L.T. Wong, C.L. Cheng, K.W. Mui, C.J. Yen, W.J. Liao and K.C. He
- 16:30-16:45 Study of Pollutant Transfer Coefficient Inside Street Canyons in Different Flow Regimes Using Large-Eddy Simulation and $k-\epsilon$ Turbulence Model
Tracy N.H. Chung, Y.Y. Tse and Chun-Ho Liu
- 16:45-17:00 Effect of Domain Size on Urban Canopy Layer Modelling Over 2D Idealized Street Canyons with Large-Eddy Simulation
Colman C.C. Wong and Chun-Ho Liu

Salon III

Session 1E: Forum on Sustainable Energy Supply in Hong Kong

Chair: Hong-xing Yang

- 14:00-14:20 Nuclear Energy as a Possible Solution for Local Energy Supply
C. F. Lee
- 14:20-14:40 Demand-side Management for Energy Conservation in Buildings
S. W. Wang
- 14:40-15:00 Solar Energy: a Case Study for Sustainable Energy Source
T. T. Chow
- 15:00-15:20 Prospects of Renewable Energy as a Main Energy Supply
Hong-xing Yang
- 15:20-15:30 Tea Break

Session 2E: Mini-symposium on Renewable Energy Applications – (I)

Chair: Hong-xing Yang

- 15:30-15:50 **Invited Presentation**
Decoupling Between Development and Emissions - Innovative Climate Change Mitigation Systems and Technologies
J. Yan
- 15:50-16:05 Large Scale Integration of Photovoltaics in Cities
Ursula Eicker, Aneta Strzalka, Claudia Schulte, Jurgen Bogdahn, Jurgen Schumacher and Volker Coors
- 16:05-16:20 Temperature Field Simulation of Borehole Ground Heat Exchangers Considering Hydrogeologic Conditions
Y.J. Yu, H. Long and Z.Q. Feng
- 16:20-16:35 Investigation on the Wind Power Utilization over a Reference High-rise Building in Hong Kong
Sun Ke, Vivien Lu Lin, Hongxing Yang and Hai Jiang
- 16:35-16:50 Parameter Evaluation and Optimum Design of Building-Integrated Photovoltaic/Thermal Modules
L. L. Sun and H. X. Yang
- 16:50-17:05 Know the Fitness of Your Building
Larry G. Wash

16 Dec 2010 (Thursday)

Registration

08:00-17:00 The Registration Counter will be open from 08:00 to 17:00.

Mini-symposia and Parallel Sessions

Ballroom I

Session 3A: Urban Wastes Treatment and Recycling – (I)

Chair & M.C. Limbachiya and G.F. Peng

Co-chair

08:30-09:00 **Invited Presentation**

Sustainable Landfill Technologies for Municipal Solid Wastes in China

Y. M. Chen, H. Ke, Y. C. Li and L. T. Zhan

09:00-09:15 The Research on Household Waste Generation and Management in Peri-Urban Area: A Case Study in The Jimei District of Xiamen, China

Li-shan Xiao, Run Wang, Tao Lin, Ling-yang Pan and Yu Zhao

09:15-09:30 Fracture Properties of Concrete Incorporated with Waste Compact Disc Shred

W. C. Tang and T. Y. Lo

10:15-10:35 Tea Break

Session 4A: Urban Housing Provision

Chair & Co- Roger Bruno Richard and Yanbin Liu

chair:

10:35-10:50 Property Development: The Influence of Demographic Changes on the Actors (Local Authority & Housing Developers) and the Malaysian Housing Demand (Preferences) - Proposed Methodology

Hafiszah Ismail, Abdul Hadi Nawawi and Zainal Mat Saat

10:50-11:05 Consensus of Climate and Culture in the Traditional Arab House in Middle East

Salem. M. Sharif, M. F. M. Zai and S. Mastor

11:05-11:20 Studentification: Social, Cultural and Spatial Regulation

Chen-Yi Wu and Titan Bo-Xiu Jian

Session 5A: Sustainable Urban Infrastructure

Chair & Co- F. Khosrowshahi and Vineet Kamat

chair:

11:35-11:50 Comprehensive Collision Avoidance System for Buried Utilities

Sanat A. Talmaki, Suyang Dong and Vineet R. Kamat

11:50-12:05 Parametric 4D Modeling for Real-Time Visualization of Microtunneling Operations

Xiong Liang, Ming Lu and Jian-Ping Zhang

12:05-12:20 A Self-improving System to Facilitate the Continuous Process of Health Monitoring of Sewage Pipes in Hong Kong

Esmond Mok, Wu Chen, Geoffrey Shea, Lilian Pun-Cheng, King Wong and Guo-ning Zhai

12:35-14:00 **Lunch – Whampoa Lounge and Ballroom II**

Session 6A: Urban Pollution Control

Chair: Xiaoming Wang

14:00-14:15 The Effect of Legislation on the Contractor's Attitudes on Solid Waste Reduction

Peter S.P. Wong and Y.H. Lam

- 14:15-14:30 Behavior of Sectoral CO2 Emission in Concrete Industry at the Case of Replacing Ready-Mixed Concrete Demands to Pre-Cast Concrete Products
R. Kitagaki, T. Mitani, H. Nagai and T. Noguchi
- 14:30-14:45 Application of Diesel Oil-Water Emulsion Fuel in Diesel Engine for Environment Sustainability
Agung Sudrajad, Fujita Hirotsugu, Amiruddin bin Abdul Kadir and Ismail bin Ali
- 14:45-15:00 Sectorial & Spatial Analysis of CO2 Emission in Concrete Industry Using Resource Recycling Simulator “ecoMA” Implementing Actual Road Network
T. Mitani, R. Kitagaki, H. Nagai and T. Noguchi
- 15:30-15:50 Tea Break

Session 7A Sustainable Design and Construction Practices

Chair & Co-chair: Patrick X.W. Zou and Geoffrey Q.P. Shen

- 15:50-16:05 Space Intergrowth: A Practice Exploration on the Sustainable Design of Urban Waterfront
Yan Yuan and Yankui Li
- 16:05-16:20 Mechanism for Integrating Sustainability in Engineering Design
K. P. Lee and Andrew S. Chang
- 16:20-16:35 IFC-Based Model Exchange and Sharing between Building Design and Construction
Jianping Zhang, Yong Wang and Yang Zhang
- 16:35-16:50 Examining Construction Quality Supervision and Organization Procedures for BOT Projects by Comparing with DBB Projects
Wen-Hao Leu and Andrew S. Chang
- 16:50-17:05 BIM based Computer Aided Formwork Design System
X.L. Zhang, J.P. Zhang and D.P. Wu
- 17:05-17:20 A Project Data Modeling Introducing Normalization for Effective Cost Estimation at The Design Phase
N. H. Ham, J. S. Lee, J. H. Kim and J. J. Kim

19:00-19:30 **Cocktail Reception – Pre-function Area**

19:30-22:00 **Conference Banquet – Grand Ballroom**

Ballroom II

Session 3B: Urban Planning for Sustainability – (I)

Chair & Co-chair: Shuoxian Wu and Zhiliang Ma

- 08:30-09:00 **Invited Presentation**
Why Greenhouse Gas Emissions Must Be Considered in Urban Planning
Donald R. Blake
- 09:00-09:15 The Study of Urban Planning Decision-making System in the Background of Rapid Economic Development - a Case Study of Shanwei City
Jian-Hong Fan, Xue-Mei Zhu and Ling-Ling Wu
- 09:15-09:30 Sustainable Urban Development in Palestine Case; Ramallah and Al-Bireh Governorate
Salim Abu Thaher
- 09:30-09:45 Rethinking the New Role of Regional Planning System and its Dilemmas in Taiwan’s Territorial Restructuring
Cassidy I-Chih Lan and Chen-Jai Lee
- 9:45-10:00 Study on Functional and Aesthetic Characters of Two Cities in Iran: Harmonization Between Urban Design and Natures
Mansour Nikpour, Batool Shamsaddin and Mohd Zin bin Kandar
- 10:15-10:35 Tea Break

12:35-14:00 **Lunch – Whampoa Lounge and Ballroom II**

15:30-15:50 Tea Break

Session 7B: Urban Planning for Sustainability – (II)

Chair: K. London

15:50-16:05 **Invited Presentation**

Sustainable Urban Sound Environment

Shuoxian Wu

16:05-16:20 Assessing the Sustainability of Urban Development

R. Del Mistro and C. Dick

16:20-16:35 The Time Horizon in the Evaluation of Sustainable Development

M. De Iuliis and P. Brandon

16:35-16:50 Ranking ‘Sustainable Cities’: A Critical Review

Wei Pan

16:50-17:05 Using Future Scenarios to Test the Robustness of Today’s Sustainability Decisions in Urban Areas: A Methodology Paper

Christopher T. Boyko and Rachel Cooper

19:00-19:30 **Cocktail Reception – Pre-function Area**

19:30-22:00 **Conference Banquet – Grand Ballroom**

Salon I

Session 3C: Sustainable Materials and Structures – (I)

Chair & Co-chair: Albert K.H. Kwan and Yuxi Zhao

08:30-09:00 **Invited Presentation**

Progress Report on Development of Glue-laminated Bamboo (GluBam) Structures

Y. Xiao

09:00-09:15 Continuous Monitoring of the Hydration of Portland Cement at Early Ages

Wei Chen, Hao Huang, Yuan Li and Zhonghe Shui

09:15-09:30 Effect of Metakaolin on ITZ Microstructure of High-strength Concrete

Z.H. Shui, J.J. Zeng and G.M. Wang

09:30-09:45 Carbonation of Fly Ash Concrete Investigated with Microhardness Analysis

Wenbing Xu, Zhonghe Shui and Wei Chen

09:45-10:00 Chloride Migration Property of Silane Treated Natural and Recycled Aggregate Concrete

R. Tiernan, J. G. Dai, Y. G. Zhu and Chi-sun Poon

10:15-10:35 Tea Break

Session 4C: Mini-symposium on Wastes Management and Recycling – (I)

Chair Chi-sun Poon

10:35-11:05 **Invited Presentation**

The Current State and Future Prospects of Wastes and Recycling in Japan

Koji Sakai

11:05-11:25 The Properties and Application of Recycled Coarse and Fine Aggregates Made of Urban Construction and Demolition Wastes

L. X. Liu, Z. H. Du, and P. W. Guan

11:25-11:45 Recycled Sand from Brazilian Construction and Demolition Waste

C. Ulsen, G. Hawlitschek, H. Kahn, S. C. Angulo and V. M. John

Session 5C: Mini-symposium on Wastes Management and Recycling – (II)

Chair Chi-sun Poon

11:50-12:10 The Possibility of Making Use of Crumb Rubber from Scrap Tyre for Bituminous Paving Material in Hong Kong

L. W. Cheung, P. K. Kong and W. G. Wong

12:10-12:30 Mix Design of Concrete Made with All Recycled Aggregate from Deconstructed Lead-Contaminated Masonry Buildings

J. Hu, K. Wang and J. A. Gaunt

12:35-14:00 **Lunch – Whampoa Lounge and Ballroom II**

Session 6C: Mini-symposium on Wastes Management and Recycling – (III)

Chair Chi-sun Poon

14:10-14:30 Recycling Glass Waste for Reuse in Concrete Construction

M. C. Limbachiya and S. Fotiadou

14:30-14:50 Manufacture of Concrete Kerb and Floor with Recycled Aggregate from C&DW

F. López Gayarre, A. López Martínez, C. López Colina and M.A. Serrano López

14:50-15:10 Influence of Aluminium Impurity on Recycled Concrete and Inspection Method

W. J. Park, T. F. Noguchi and H. N. Nagai

15:10-15:30 A Study on the Mix Design and Fundamental Properties for Mixed Mortars Using Recycled Fine Aggregates

W. L. Zhao, X. L. Cai and R. Y. Wang

15:30-15:50 Tea Break

Session 7C: Mini-symposium on Wastes Management and Recycling – (IV)

Chair: Chi-sun Poon

15:50-16:10 Study on the Influencing Factors of Setting and Hardening Properties of Dehydrates of Cement Paste

Kang Wang, Zhonghe Shui, Chunhua Shen and Rui Yu

16:10-16:30 The Use of an Oedometer Test in Recycled Aggregates to Evaluate Bearing Capacity in Pipe Beds

F. Agrela, A. Barbudo, J.R. Jiménez, A. Pérez and J. Ayuso

16:30-16:50 History of Development of Completely Recyclable Concrete

T. Noguchi

16:50-17:10 Investigation into the Fatigue Damage Process of Rubberized Concrete and Plain Concrete by AE Analysis

Yamei Zhang, Chao Wang and Aibin Ma

17:15-17:35 Deflection of Reinforced Concrete Beams with Recycled Coarse Aggregate

Wu Jin, Yang Guixin and Ye Qiang

17:35-17:55 Fracture Properties and Carbon Neutral Analysis of Concrete Materials Containing Disposed Sea Shell

Kiyoto Komuro and Masaki Tamura

17:55-18:15 Prediction of Compressive Strength of Recycled Aggregates Concrete Using Artificial Neural Networks

Z.H. Duan, S.C. Kou and Chi-sun Poon

Salon II

Session 3D: Sustainable Urban Transportation

08:30-08:45 Urban Spatial Structure and Transport Opportunity in Dhaka – A Question of Sustainability
Ahsanul Kabir and Bruno Parolin

- 08:45-09:00 Role of Intelligent Transportation Systems in Urban Sustainable Development
Mojtaba Zourbakhsh
- 09:00-09:15 A Software Framework for Online Traffic Prediction Systems
Hongliang Ma, Jianping Zhang and Ruimin Li
- 09:15-09:30 Sustainable Modal Split by Trip Length for Urban Travel in Medium-Size Cities of China
Wenzhu Zhou, William H. K. Lam and Agachai Sumalee
- 09:30-09:45 Extent of Development Traffic Volume Reduction Resulting from Parking Automatic Barrier
J. Ben-Edigbe and A. Ramli
- 10:15-10:35 Tea Break

Session 4D: Mini-symposium on Building Information Modelling and Changing Construction Practices – (I)

Chair & Co-chair: Heng Li & Wilson Lu

10:35-11:20 **Invited Presentation**

Practice in Building Modelization and Revolution
Ming Lai

11:20-11:35 Using Building Information Modeling to Streamline Leed® Rating Analyses
Salman Azhar, Wade A. Carlton, Darren Olsen and Irishad Ahmad

Session 5D: Mini-symposium on Building Information Modelling and Changing Construction Practices – (II)

Chair & Co-chair: Heng Li & Wilson Lu

11:35-11:50 Technology Adoption in the BIM Implementation for Lean Architectural Practice
Y. Arayici, P. Coates, L. Koskela and M. Kagioglou

11:50-12:05 The Limitations of BIM in the Architectural Process
P. Coates, Y. Arayici, L. Koskela, M. Kagioglou, C. Usher and K. O' Reilly

12:05-12:20 A Proposal of 3D Product Data Model and its Application System for Civil Infrastructure
K. Monobe and S. Kubota

12:20-12:35 Creating 3D Drawing from 2D Digital Images with Photogrammetry
E. Kitagawa and T. Sugimachi

12:35-14:00 **Lunch – Whampoa Lounge and Ballroom II**

Session 6D: Mini-symposium on Building Information Modelling and Changing Construction Practices – (III)

Chair & Co-chair: Heng Li & Wilson Lu

14:00-14:15 Electronic Procurement in AEC Based on BIM
António Grilo and Ricardo Jardim-Goncalves

14:15-14:30 Measuring BIM's Learning Effect for Construction Works: A Conceptual Model
W. S. Lu, Y. Peng, H. Li and Q. P. Shen

14:30-14:45 A Study on Using Bamboo as a Sustainable and Cost Effective Construction Material in the United States
J. Liu and M. Tilt

14:45-15:00 Issues and Implementations Methods for BIM in the Civil Infrastructure Domain
Nobuyoshi Yabuki

15:00-15:15 BIM, CIC and Information Systems in Construction
Youngsoo Jung and Mihee Joo

15:15-15:30 BIM-and-4D-Based Integrated Solution of Analysis and Management for Conflicts and Structural Safety Problems During Construction: 1. Principles and Methodologies
J. P. Zhang and Z. Z. Hu

15:30-15:50 Tea Break

Session 7D: Mini-symposium on Building Information Modelling and Changing Construction Practices – (IV)

- Chair & Co-chair: Heng Li & Wilson Lu
- 15:50-16:20 **Invited Presentation**
Building Information Modelling - Transformation of Building Industry Practice
Ada Fung
- 16:20-16:35 BIM-and-4D-Based Integrated Solution of Analysis and Management for Conflicts and Structural Safety Problems During Construction: 2. Site Trials
Z. Z. Hu and J. P. Zhang
- 16:35-16:50 Technical Features of BIM-servers for Collaboration on Building and Construction Projects
Vishal Singh, Ning Gu and Xiangyu Wang
- 16:50-17:05 Visual Degradation of the Internal Lighting of a Building
F. Khosrowshahi and M. Alani
- 17:05-17:20 A Petri Net Simulation Model for Virtual Construction of Earthmoving Operations
F. F. Cheng, Y. W. Wang, X. Z. Ling and Y. Bai
- 17:20-17:35 Application and Extension of the IFC Standard in Construction Cost Estimating for Tendering in China
Ma Zhiliang, Wei Zhenhua, Song Wu and Lou Zhe
- 17:35-17:50 Analysis of Information Structure in Infrastructure Lifecycle
K. Makanae

Salon III

Session 3E: Energy-efficient & Healthy Built Environment – (I)

- Chair & Co-chair: Y.J. Yu and Vivien Lin Lu
- 08:30-08:45 Energy Tracing-based Fault Characteristic Analysis and Diagnosis in Building HVAC Systems
Zhimin Du, Xinqiao Jin, Shengwei Wang and Ruzhu Wang
- 08:45-09:00 Effect of Wing Wall on Ventilation Performance in a Cross-ventilation Building
W. Zhang, C. M. Mak, J. L. Niu and Q. Zhou
- 09:00-09:15 Indoor Environmental Quality in a Green Academic Library
B. L. Oo and B. T. H. Lim
- 09:15-09:30 Solar Desiccant Cooling for Subtropical Hong Kong
C. K. Lee, K. F. Fong and T. T. Chow
- 09:30-09:45 Measuring the Influence of Openings Configurations on Natural Ventilation of Residential Units in Hong Kong
C.F. Gao and W.L. Lee
- 09:45-10:00 Performance Analysis on the Different Air Mixing Modes of Liquid Desiccant Based Air Conditioning System
X.F. Niu, F. Xiao and Sheng-wei Wang
- 10:15-10:35 Tea Break

Session 4E: Energy-efficient & Healthy Built Environment – (II)

- Chair & Co-chair: Zhaohong Fang and Linda Fu Xiao
- 10:35-10:50 The Impact of the Urban Form on Heating, Cooling and Lighting Demand of Cities
Aysegül Tereci, Dilay Kesten and Ursula Eicker
- 10:50-11:05 Enhancing the Operational Performance of the Central Chilled Water System in A Super High-Rise Building
S. W. Wang and Z.J. Ma
- 11:05-11:20 Modelling and Analysis of Air-Cooled Chillers with Water Mist System Using Neural Networks
Jia Yang, Kwok-tai Chan and Xiang-sheng Wu
- 11:20-11:35 A Novel Integrated Energy-efficient Dedicated Outdoor Air System (DOAS) with Liquid Desiccant

Session 5E: Urban Heritage and Redevelopment

Chair & Co-chair: B. Giddings and Ho-shong Hou

- 11:35-11:50 Strategic Urban Project for Sustainable Redevelopment
Yanliu Lin
- 11:50-12:05 The Protective Technology on the Style Building Groups during The Construction of Shanghai Bund Tunnel Project
Yanbin Liu
- 12:05-12:20 A Teaching Plan for the New Senior Secondary Geography Curriculum on Urban Heritage of Hong Kong
C.H. Lai
- 12:35-14:00 **Lunch – Whampoa Lounge and Ballroom II**

Session 6E: Energy-efficient & Healthy Built Environment – (III)

Chair: Meng Ni

- 14:00-14:30 **Invited Presentation**
Indoor Environment and Human Performance for Sustainable Buildings
Shin-ichi Tanabe
- 14:30-14:45 Will Insulation Always Bring Benefits in Energy Saving and Thermal Comfort?
Lisa Guan
- 14:45-15:00 Numerical Computation and Experimental Investigation on Heat Transfer Characteristics for Jet Array Impingement under Low Velocity
J. Wang, X. Xu and X. Zhang
- 15:00-15:15 A Demand Limiting Strategy for Optimizing Monthly Electricity Bill of Commercial Buildings
Yongjun Sun, Shengwei Wang and Fu Xiao
- 15:30-15:50 Tea Break

Session 7E: Mini-symposium on Industrialization of Housing

Chair: Francis K.W. Wong

- 15:50-16:20 **Invited Presentation**
Industrialization of Appropriate and Sustainable Urban Housing
Roger Bruno Richard
- 16:20-16:35 Cooperation Model for Mass Customised Products in Swiss Construction
G. Girmscheid and Thomas Rinas
- 16:35-16:50 Sustainable Housing Development through the Build then Sell Housing Delivery System: The Malaysian Experience
Nor'Aini Yusof and Mohd Wira Mohd Shafiei
- 16:50-17:05 Defining Construction Types in Industrialization of Housing as a Response of Passive Fire Protection System
R.N. Darmono
- 17:05-17:20 Application of Prefabrication Techniques in Low-Income Housing in the Chinese Mainland
Yuhong Pan
- 17:20-17:35 Promotion of Housing Industrialization in Chongqing: A Case Study of Satisfying the Expanding Housing Demand of Young People
Xianzhen Meng
- 17:35-17:50 The Necessity of Applying Building Industrialization Strategy in China: Lesson Learned from the Disaster of Wenchuan Earthquake
Xiaomei Deng and Le Zhang

17 Dec 2010 (Friday)

Registration

08:00-17:00 The Registration Counter will be open from 08:00 to 17:00.

Mini-symposia and Parallel Sessions

Ballroom I

Session 8A: Strategies for Sustainable Urbanization – (I)

Chair: Matthias Roth

08:30-09:00 **Invited Presentation**

The Contribution of University to a Sustainable Urban Development

Peter Brandon

09:00-09:15 Legislative Framework for Achieving Sustainable City Development: Implementing Environmental Laws in Hong Kong

Franky W. H. Wong and Edwin H. W. Chan

09:15-09:30 Land Developability and Population Dynamics: Developing an Index of Land Use and Development for Sustainability Research

Guangqing Chi

09:30-09:45 Sustainable Urbanization: India's Challenge in the 21st Century

Kavas Kapadia

09:45-10:00 The Teaching of Sustainable Development to Undergraduate Engineering Students at The University of Hong Kong

S.T. Smith

10:00-10:15 From PLU to Eco-PLU: Strategies for a Sustainable City in Dijon, France

Y. Boquet

10:15-10:35 Tea Break

12:05-13:05 **Lunch – Grand Ballroom**

14:35-14:55 Tea Break

Session 11A: Strategies for Sustainable Urbanization – (II)

Chair & Co-chair: Peter Brandon and Nobuyoshi Yabuki

14:55-15:10 Sprawling of a Malaysian City: What Type and What Solutions?

M. Rafee Majid and Hafizul Yahya

15:10-15:25 Urban Sprawl and Fertile Agricultural Lands in Iranian Cities (Case Study: Theran and KaraJ)

Saeed Zanganeh Shahraki, Faranak Seifolddini and Ahmad Pourahmad

15:25-15:40 The Effect of Urbanization on Agricultural Land Use Changes in Taipei-Keelung Metropolitan Area

T. C. Wu and F. T. Lin

15:40-15:55 The Poverty of Nongmingong's Rights in China

George Hong

Ballroom II

Session 8B: Effect of Urbanization on Environment

Chair and Co-chair: Shinichi Tanabe and Guangbin Wang

08:30-09:00

Invited Presentation

Urban Metabolism of Nutrients: A New Way of Accounting Urban Biogeochemical Processes

Yong-Guan Zhu

- 09:00-09:15 A Web Service Framework for Environmental and Carbon Footprint Monitoring in Construction Supply Chains
Jack C. P. Cheng and Kincho H. Law
- 09:15-09:30 Environmental Impact of Road Transport: Emission Modeling for Evaluation of Urban Traffic Controls
X. Ma, W. Lei and H. Chen
- 09:30-09:45 Impact of Land Cover Change on Flood Runoff Characteristics in a River Basin Due to Urbanization
Mohammad Farid, Akira Mano and Keiko Udo
- 09:45-10:00 Urban Design and Walkability in North-West Sydney
D. Pelleri and A. Piracha
- 10:00-10:15 Climate Change Impact on Building Energy Efficiency and Carbon Emission
Xiaoming Wang, Dong Cheng, Zhengen Ren
- 10:15-10:35 Tea Break
- 12:05-13:05 **Lunch – Grand Ballroom**
- 14:35-14:55 Tea Break

Session 11B: Energy-efficient & Healthy Built Environment – (IV)

Chair & Co-chair: Chun-Ho Liu and Sheng-wei Wang

- 14:55-15:10 Role of Bioethanol from Lignocellulosic Wastes in the Global Climate Change
I.P. Pandey
- 15:10-15:25 Energy Distribution Problems: A Decentralized Self-Organizing Systems Perspective
Benyun Shi and Jiming Liu
- 15:25-15:40 Energy Efficiency Benchmarking for Fleet Management
Philip Y. L. Wong and William C. W. Yung
- 15:40-15:55 Life Cycle Assessment on Rural Energy System in China and Case Studies
J. Wang
- 15:55-16:10 User Survey Investigation into the Preferred Solar Access of Residents in High-Density Living Environment – An Initial Study
Edward Yan-Yung Ng, Kevin Ka-Lun Lau and Justin Zhengjun He

Salon I

Session 8C: Conservation and Reuse

Chair: L. T. Zhan and Peter K.W. Mok

- 08:30-08:45 Using Rainwater as a Sustainable Resource in the Context of Indian Cities
Aruna Ramani Grover
- 08:45-09:00 Influence of Construction Conditions on Properties of Recycled Concrete
Hongru Zhang, Yuxi Zhao and Pingping Sun
- 10:15-10:35 Tea Break

Session 9C: Sustainable Buildings

Chair & Co-chair: Wei Pan

- 10:35-10:50 Development of Sustainability Building Index in Hong Kong
Peter K. W. Mok
- 10:50-11:05 Large-Eddy Simulation of Cross-Ventilation in Rows of Hypothetical Buildings
James O.P. Cheung and Chun-Ho Liu
- 11:05-11:20 Risk Identification and Assessment in Green Retail Building Development
Patrick X.W. Zou, Simon Rischmillier and Annie Y.X. Xu
- 11:20-11:35 Strategies to Manage Major Risks in Green Retail Building Development
Patrick X.W. Zou, Annie Y.X. Xu and Simon Rischmillier
- 11:35-11:50 A Theoretical Framework for Building Maintainability Studies
W. K. Lau and D. C. W. Ho

12:05-13:05 **Lunch – Grand Ballroom**

Session10C: Sustainable Urban Living

Chair: S.T. Smith

- 13:05-13:20 The Concept of Smart Cities
Hoong Chor Chin, Ashim Kumar Debnath and Belinda Yuen
- 13:20-13:35 Public Squares in European City Centres
B. Giddings, J. Charlton and M. Horne
- 13:35-13:50 Exploring Safety as an Important Criterion in Sustainability Assessment
Eddie W.L. Cheng
- 13:50-14:05 Strategy of Controlling Urban Economic Activity When Pandemic Occurs
Tomoki Ishikura and Koji Kawaguchi
- 14:05-14:20 Towards an Urban Climatic Information Platform for Design and Planning High Density Cities - An Experience from Hong Kong
E. Ng and C. Ren
- 14:35-14:55 Tea Break

Session 11C: Urban Wastes Treatment and Recycling – (II)

Chair & Co-chair: Donald R. Blake and H. Guo

- 14:55-15:10 In Search for Sustainable Management of Food Waste – Experience of the Pilot Treatment Facility in Hong Kong
P. H. Lui and Matthew Ko
- 15:10-15:25 Greywater Reuse for Green Vertical Garden: Possible or Impossible? (Case study: Bandung City, Indonesia)
Mayrina Firdayati, Marisa Handajani, Christopher Buzie and Ralf Otterpohl
- 15:25-15:40 Recycling of Construction and Demolition Wastes (C&DW) in Urban Development Projects. A Method of Evaluation of Sustainability
J.P. Ainchil and I.Vegas
- 15:40-15:55 Bio-plastic (PHAs) Production by Using Recombinant Strain
D. Zhong, Y.J. Wang, D. He, S.N. Sin, H. Chua and P.H.F Yu
- 15:55-16:10 Optimal Fermentation Type for Bio-hydrogen Production in Continuous-flow Acidogenic Reactors
Y.J. Wang, D. Zhong, Y.L. Pan, D. He, S.N. Sin and H. Chua

Salon II

Session 8D: Sustainable Materials and Structures – (II)

- Chair: J.G. Dai
- 08:30-08:45 Application of the Analytic Hierarchy Process for Assessing Sustainability as Additional Value in Concrete Materials
M. Henry and Y. Kato
- 08:45-09:00 Reducing Early Thermal Cracking and Carbon Footprint of Concrete by Adding Pulverized Fuel Ash
A.K.H. Kwan, J.J. Chen, W.W.S. Fung, P.L. Ng and I.Y.T. Ng
- 09:00-09:15 Effect of Carbonation on the Microstructure of Concrete Containing Fly Ash and Expansive Admixture
Juntao Ma, Liuqing Tu, Zhonghe Shui and Wenbing Xu
- 09:15-09:30 Behaviour of Concrete Confined with Recycled Polyethylene Terephthalate Fibre Reinforced Polymer
J.G. Dai, Y.L. Bai and J.G. Teng
- 09:30-09:45 Experimental Study of Dynamic Characteristics of Free Spanning Submarine Pipelines
L. Sun, B. W. Chen, D. Z. Liang and Z. Li
- 10:15-10:35 Tea Break

Session 9D: Mini-symposium on Remote Sensing of Urban Environment (Applications)

- Chair: Janet Nichol
- 10:35-11:05 **Invited Presentation**
Advances in Urban Remote Sensing and the Implications for Sustainable Development & Metropolitan Sustainability
Gilbert L. Rochon, Larry Biehl, Okan Ersoy, Magdy Abdel Wahab, Gamal El Afandi, Gulay Altay, Tajje-eddine Rachidi, Chaker El Amrani, Mohamed Shokr, Tarek El-Ghazawi, Mohamed A. Mohamed, Darion Grant, Souleymane Fall, Thierno Thiam, Joseph Essamuah-Quansah, Angel Torres Valcarcel, Bereket Araya, Bertin H. Mbongo, Jinha Jung, Wonkook Kim, Derrick Kearney, Abdur Rahman M. Maud, Toba Oluwatoba Omotilewa, Bala Murugan Gnanasekaran, Magda Galloza, Acushla Antony, Benjamin M. Weiss and Jay Destino
- 11:05-11:20 Use of GIS and Remote Sensing Products in Support of Large Area Mapping of the Canopy-layer Urban Heat Island: Application to Singapore
R. M. Li and M. Roth
- 11:20-11:35 Climatology and Performance of LIDAR-based Visibility Map at the Hong Kong International Airport
P. W. Chan and C. M. Li
- 11:35-11:50 Integration of Satellite and Environmental Data for Estimation of Urban Environmental Quality in Seoul
K. H. Lee, M. S. Wong and J. Nichol
- 11:50-12:05 A Study of Air Ventilation Impacts of the “Wall Effect” in Hong Kong Using GIS and Remote Sensing Techniques
M. S. Wong, J. E. Nichol and E. Y. Y. Ng
- 12:05-13:05 **Lunch – Grand Ballroom**

Session 10D: Mini-symposium on Remote Sensing of Urban Environment (Techniques Development)

- Chair: Bruce King
- 13:20-13:50 **Invited Presentation**
Material and Object Mapping from Multispectral and Hyperspectral Data in Urban Areas
P. Gamba, G. Lisini, G. Trianni and K. Bakos

- 13:50-14:05 Remote Sensing of Impervious Surfaces in the Urban Areas: from Pixel, Sub-pixel, Object, to Human Intelligence
Qihao Weng
- 14:05-14:20 An Evaluation of Thermal Earth Observation for Characterising Urban Temperature Dynamics
Tomas Holderness, Stuart Barr, Richard Dawson and Jim Hall
- 14:20-14:35 On the Use of Integrated Remote Sensing Techniques to Study Aerosol Sources and Transport Pathways to Hong Kong
M.S. Wong, J.E. Nichol and K.H. Lee
- 14:35-14:55 Tea Break

Salon III

Session 8E Mini-symposium on Renewable Energy Applications – (II)

- Chair: Hong-xing Yang
- 08:30-08:50 **Invited Presentation**
The Ground-Coupled Heat Pump Technology in China
Zhaohong Fang, Nairen Diao, Ping Cui and Mingzhi Yu
- 08:50-09:05 Au Catalysed Deposition of ZnTe/CdSe Core-shell Nanorods using CVD
Yuanhao Wang, Jason Marmon, Hongxing Yang, Lin Lu and Quande Che
- 09:05-09:20 Numerical and Experimental Analysis of Heat and Mass Transfer for a Passive Solar Greenhouse
Zhang Linhua, Liu Shan, Chang Lina and Zhang Feng
- 09:20-09:35 A Mini-Thermal Liquid Desiccant Air Conditioner for Residential Application
Yuan Yijun and Saffa Riffat
- 09:35-09:50 Analysis on Solar and Wind Energy Power Potential and Implement Plan in Jinan
Haijing Shu, Nanchun Luo and Yongan Li
- 09:50-10:05 Utilization of Eupatorium Adenophorum Spreng for Bioenergy Production
Yin Fang, Zhang Wudi, Duan Xinxu, Tian Guangliang, Liu Shiqing and Huang Zunxi
- 10:05-10:20 Integrating Remote Source Lighting System into the Enclosed Lift Lobbies in High Rise Residential Building of Central Core Design
Irene Wong and Hong-xing Yang
- 10:15-10:35 Tea Break

Session 9E: Mini-symposium on Complexities in Managing Mega Construction Projects – (I)

- Chair: Heng Li
- 10:35-11:05 **Invited Presentation**
Modelling Success on Complex Projects: Multiple Perspectives Over Multiple Time Frames
Rodney Turner, Roxanees Zolin and Kaye Remington
- 11:05-11:20 Mega Project: Sociological Analyses from the Perspective of Conflict Theory
Guangshe Jia, Fangjun Yang, Guangbin Wang, Baonan Hong and Rui You
- 11:20-11:35 The Client's Complex Decision-Making Environment on International Mega Projects
J.P.S. Siva and K. London
- 11:35-11:50 A Total Environmental Risk Assessment Model for Hub Airports
Z. Chen, H. Li, and Q. Xu
- 11:50-12:05 Study on Risk Evaluation Model of PPP Project Based on Vague Value
Li Hu, Weiguo Zhang and Tingting Lou
- 12:05-13:05 **Lunch – Grand Ballroom**

Session 10E: Mini-symposium on Complexities in Managing Mega Construction Projects – (II)

- Chair: Heng Li
- 13:05-13:20 Program Management Organization Maturity Integrated Model for Mega Construction Projects in China
Guangshe Jia, Yuting Chen, Xiangdong Xue, Jianguo Chen, Jiming Cao and Kewei Tang
- 13:20-13:35 The Role of Reflexive Capability in Relation to Intellectual Capital on Multi International Partnerships
K. London and J. P. S. Siva
- 13:35-13:50 PBS-based Integrated Breakdown Structure Model for Mega Project Management Information System in China
G. B. Wang, D. Tan, G. S. Jia and Z. F. Zhou
- 13:50-14:05 Development of Intelligent Program Management Information System (i-PgMIS) for Mega-Project
M.J. Son, S.R. Kim, R.Z. Jin, K.M. Cho and C.T. Hyun
- 14:05-14:20 User-definable Process-based Electronic Document Management Systems(UPEDMS) for Urban Renewal Mega Projects
Seung-Jin Park, Jae-Bok Lim, Ju-Hyung Kim and Jae-Jun Kim
- 14:20-14:35 BIM-Based Program Information Management Systems for Urban Renewal Mega Projects Planning
Hyeon-Jeong Choi, Min-Ji Kwon, Ju-Hyung Kim and Jae-Jun Kim
- 14:35-14:55 Tea Break

List of Poster Presentations

Related Session	Paper Title and Author(s)
Session 3A	Influence of Free Air Space on Microbial Kinetics in Fed-batch Composting Reactor <i>Wang Hongbo, Limei, Wang Lina, Li Yingying and Wang Xiaochang</i>
Session 3D	Estimating Transport Ecological Footprint at Local Levels: An Ordinary Kriging Approach <i>Guangqing Chi</i>
Session 3E	Numerical Analysis of Effect of Balconies on Wind-induced Natural Ventilation on Low-rise Buildings <i>Z.T. Ai, C.M. Mak, J.L. Niu, Z.R. Li, Q. Zhou and W. Zhang</i>
Session 3E	Numerical Evaluation of the Effects of Windcatcher Louver on Ventilation Performance <i>S. C. Liu, C. M. Mak, J. L. Niu and Q. Zhou</i>
Session 4A	Changes in Residential Design and Planning Approaches: The Effects on Impervious Surface <i>M. Rafee Majid and Hafiz Hardy</i>
Session 4E	Monitoring Energy Performance of Air Conditioners in Classrooms <i>Lisa Guan and John Bell</i>
Session 5A	The Role of Urban Water Distribution Networks in the Process of Sustainable Urbanisation in Developing Countries. Case Study: Wukro Water Supply, Wukro Town, Ethiopia. <i>R. Jimenez, F. Magrinya and J. Almandoz</i>
Session 7A	Web-enabled Model-based CAD for the Architecture, Engineering and Construction Industry <i>Jack C. P. Cheng, Kincho H. Law, Yu Zhang and Charles S. Han</i>
Session 8B	Study on Progress of Large Scale Heat Island Phenomenon in Tokyo Metropolitan Area <i>Y. Kawamoto, H. Yoshikado, R. Ooka, H. Hayami, H. Huang and M. V. Khiem</i>
Session 8B	Towards Sustainable Development - Hong Kong Harbour Area Treatment Scheme Environmental Impact Assessment <i>Josh K. W. Lam</i>
Session 8C	The Influences of Sewage Sludge Incinerated Ash on the Strength, Carbonation in Concrete and Environment <i>H. Tsuruta and Y. Yamamoto</i>
Session 11A	A Quantitative Analysis of Cultivated Land Resource Conversion and Economic Development in Shanxi Province <i>Fuzhong Li, Xiaoying Liu and Zhimin Chai</i>
Session 11A	Achieving Poverty Eradication through Strategic Infrastructure Delivery for Income Generation in Slums <i>Funlola Famuyiwa and Modupe M. Omirin</i>
Poster Presentation at the Mini-symposium on Building Information Modelling and Changing Construction Practices - (I) – (IV)	
Inheriting the Past and Building the Future - Study of Preservation of Existing Buildings on Shanghai World EXPO 2010 Site <i>J. Liu and K Z. Triche</i>	

Poster Presentations at the Mini-symposium on Low Carbon Cities - (I) & (II)
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Carbon Emissions and Well-being Performance in China <i>Wei Chen, Da-jian Zhu, Edwin Hon-wan Chan and Ying Xu</i>
Towards Carbon Neutral City Planning: Rotterdam Energy Approach and Planning (REAP) A Tool for Urban Planners in Accommodating Flows of Energy, Water, Materials and Natural Resources <i>N.M.J.D. Tillie , D.R. Doepel, and A.A.J.F. van den Dobbelsteen</i>
Development of Low Carbon City in Malaysia - The Case of Development Corridor of Iskandar Malaysia <i>Ho Chin Siong, Matsuoka Yuzuru, Janice Simson and Gomi Kei</i>
From Global Climate Change to Low Carbon Cities - The Triple Bottom Line Revisit <i>Wynn Chi Nguyen Cam</i>
Energy Regulations Require Stricter Enforcement as a Response to Climate Change <i>H. J. Visscher, L. Itard and O. Guerra Santin</i>
Designing for Future Building Adaptive Reuse Using adaptSTAR <i>Sheila Conejos and Craig Langston</i>
Critical Factors for Sustainable Adaptive Reuse of Heritage Buildings <i>Esther H.K. Yung and Edwin H.W. Chan</i>
Comparative Study on Sustainability of Urban Infill Development of Shenzhen and Wuhan in China <i>Wenli Dong, Steffen Lehmann and Jamie Mackee</i>
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Analyzing Cities’ Sustainability through Ecological Footprint and Human Development Index <i>Debra Lam</i>
Toward Low Carbon Buildings: Sustainable Building Energy Efficiency Retrofit (BEER) under Energy Performance Contracting (EPC) Mechanism <i>P.P. Xu and Edwin H.W. Chan</i>
Spatial Variation of the Characteristics of Urban Heat Island Effect in Hong Kong <i>H.Y. Mok, M.C. Wu and C.Y. Cheng</i>
Cities as Organisms: Using Biomimetic Principles to Become Energetically Self-supporting and Climate Proof <i>Andy van den Dobbelsteen, Greg Keeffe, Nico Tillie and Rob Roggema</i>
Poster Presentations at the Mini-symposium on Wastes Management and Recycling - (I) – (IV)
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Experimental Study on Mix Proportion and Fundamental Properties of Recycled Concrete <i>Z. H. Du, T. Hao and G. Guan</i>
Construction and Demolition (C&D) Waste Management: Current Situation and Practices in Malaysia <i>Ahmad Firman Masudi, Che Rosmani Che Hassan, Noor Zalina Mahmood, Siti Naziera Mokhtar and Nik Meriam Sulaiman</i>
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Evaluation of the Environmental Impacts of Recycled Coarse Aggregates <i>A.P. Galvín, F. Agrela, J. Ayuso and J.R. Jiménez</i>
Construction Waste Control: Case Study of Ipoh, Malaysia <i>Siti Akhtar Mahayuddin, Joy Jacqueline Pereira, Wan Hamidon Wan Badaruzzaman and Mazlin B. Mokhtar</i>
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Turning Wastes to Eco-friendly Construction Materials <i>C.S. Poon</i>

GENERAL INFORMATION

Hong Kong – a magnificent city

Hong Kong is a Special Administrative Region of the People's Republic of China. It is a territory of about 1070 sq.km. located at the trading crossroads of Asia. Hong Kong is one of the world's leading economies, a major manufacturing and international financial centre, the world's busiest container port and the main gateway to the Chinese mainland.

The climate in December is pleasant and dry, with an average temperature of 15 to 18°C. Visas are not required for the citizens of most countries entering Hong Kong as visitors. However, participants are advised to consult their travel agents or the nearest Chinese Embassy for current formalities.

Hong Kong currently has a population of about seven million of which 98 percent are of Chinese origin. Cantonese, a southern dialect of the Chinese language is the commonly spoken language whereas English is the working language of business, finance and tertiary education.

Conference Venue

The Conference will consist of 3-day programme. The Conference will be held at the 5-star Harbour Grand Kowloon Hotel (15-17 December 2010). The Harbour Grand Kowloon Hotel is located on the waterfront with panoramic harbour views towards Hong Kong Island and the South China Sea. It has all the facilities of a first class hotel. It is just five minutes drive from MTR Hung Hom Station and bustling Tsimshatsui, and adjacent to piers linking to the three key Hong Kong Island districts of Central, Wanchai and North Point. The Hotel is served by taxis, buses and green public light buses.

Presentation of Papers

English should be used for presentation of papers and discussions. Each speaker in a parallel session is allowed 15 minutes for presentation and discussion.

Currency

The current exchange rate is US\$1 = HK\$7.8 approximately. Most of foreign currencies can be freely exchanged at banks, shops and money changers. There is no exchange control for inward or outward remittances. Travellers cheques and major credit cards are widely accepted.

Electricity

The voltage and frequency used in Hong Kong are 220 volts and 50 Hz, respectively.

Communication

Hong Kong has one of the best communication networks in the world. Local calls are free to subscribers but cost HK\$1 when using public telephones. Participants are reminded that hotels charge a high levy for telephone calls made in-house.

Welcome Cocktail Party

Begin your stay by renewing old friendships and making new friends. Let us meet at the Welcome Cocktail Party.

Date: 14 December 2010 (Tuesday)

Time: 18:00-20:00

Venue: Salon I, Harbour Grand Kowloon Hotel

Fee: Free for registered delegates and accompanying persons. Additional ticket available at US\$50 for each person.

Conference Banquet

Enjoy a wonderful evening of Chinese cuisine at the conference banquet.

Date: 16 December 2010 (Thursday)

Time: 19:30-22:00

Venue: Grand Ballroom, Harbour Grand Kowloon Hotel

Fee: Free for registered delegates and accompanying persons. Additional ticket available at US\$100 for each person.

TRAVEL INFORMATION

Official Travel Agent

The company PC Tours & Travel is the official travel agent for the Conference, and will handle all related travel arrangements and tours. The desk of the travel agent will be opened during the Conference. Enquiries and applications concerning arrangements should be addressed to:

Ms Veronica Cheng
PC Tours and Travel
302 Tower A
New Mandarin Plaza
14 Science Museum Road
Tsimshatsui East, Kowloon, Hong Kong
Tel No: (852)2734 3312
Fax No: (852)2723 9044

Accommodation

Reservations for the following hotels, all within easy access to the conference venue, can be made through PC Tours and Travel. To enjoy the special rates listed below, payment must be made through the travel agent.

1. Harbour Grand Kowloon Hotel

The Conference Hotel, situated on the waterfront with panoramic harbour views towards Hong Kong Island and the South China Sea, provides comfort and a comprehensive health club, sauna, massage facilities and a swimming pool.

Address: 20 Tak Fung Street, Hung Hom, Kowloon, Hong Kong
Web Site: www.harbour-plaza.com.hk
Tel No: (852)2621 3188
Fax No: (852)2621 3311

2. Kimberly Hotel

Centrally located at the heart of Tsimshatsui, Hong Kong tourist and shopping centre, 3 minutes from the MTR (underground subway). All rooms are equipped with colour television, pay movie and IDD etc. It takes about 10 – 15 minutes by taxi from the Harbour Grand Kowloon Hotel.

Address: 28 Kimberley Road, Tsimshatsui, Kowloon, Hong Kong
Web Site: www.kimberleyhotel.com.hk
Tel No: (852) 2723 3888
Fax No: (852) 2723 1318

Harbour Plaza 8 Degrees Hotel

The convenient location provides easy access to the MTR Station, Kowloon Bay, Mong Kok, Kwun Tong shopping areas and the bustling Tsimshatsui. It takes about 10 – 15 minutes by taxi from the Harbour Grand Kowloon Hotel.

Address: 199 Kowloon City Road, Tokwawan, Kowloon, Hong Kong
Web Site: www.harbour-plaza.com
Tel No: (852) 2126 1988
Fax No: (852) 2126 1900

Sightseeing Tours

Additional information on tourist attractions in Hong Kong and China for pre- and post-conference tours is also available from the travel agent upon request.

ACKNOWLEDGEMENT

The conference organizer would like to thank the following sponsors for their much appreciated support to the Conference.

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