

# 6<sup>th</sup> International Conference on Tall Buildings

## Mini Symposium on Sustainable Cities

## Mini Symposium on Planning, Design and Socio-Economic Aspects of Tall Residential Living Environment

6<sup>th</sup> December 2005 (Day 1)

Time	Fanling Room / Grand Ballroom	Lotus and Jasmine Room	Shek-O Room	Tai Po Room
9:00am – 9:40am	<p>Welcome speech <i>Prof. Y.K. Cheung</i> Chairman of ICTB-VI The University of Hong Kong, HKSAR</p> <p>Opening address <i>Prof. Lap-Chee Tsui</i> Vice Chancellor, The University of Hong Kong, HKSAR</p> <p>Opening address <i>Prof. Wu Qidi</i> Deputy Minister Ministry of Education, China</p> <p>Opening address <i>Prof. Huang Wei</i> Deputy Minister Ministry of Construction, China</p>			

*6<sup>th</sup> December 2005 (Day 1)*

Time	Fanling Room / Grand Ballroom	Lotus and Jasmine Room	Shek-O Room	Tai Po Room
9:40am – 10:40pm	Chairman: Prof. Y.K. Cheung  Keynote lecture: Sustainable Development of Tall Buildings in Hong Kong <i>Ir Prof. Lo Yiu Ching</i> Permanent Secretary for the ETWB (Works) Environment, Transport & Works Bureau, HKSAR  Keynote lecture: The Status quo and Prospect of Tall Buildings and Structures in the Mainland of China <i>Prof. Wang Jun</i> President China Academy of Building Research, China			
10:40am – 11:00am	<i>Tea Break</i>			

6<sup>th</sup> December 2005 (Day 1)

Time	Fanling Room / Grand Ballroom	Lotus and Jasmine Room	Shek-O Room	Tai Po Room
11:00am – 12:25pm	<p><b><u>Session A1-1: Framed Structure</u></b></p> <p>Chairman: Prof. S. Kitipornchai</p> <p>Behavior of Concrete Frame-corewall Structure with Non-Continuous Exterior Frame Beams <i>He, X.G.</i></p> <p>Test Research on Beam-wall Semi-rigid Joint in Super High-Rise Hybrid Structure <i>Zhou, D., Liu, A., Zou, X. &amp; Zhu, H.</i></p> <p>Application of Strut-and-tie Method on Outrigger Braced Core Wall Buildings <i>Su, R.K.L., Wong, P.C.W. &amp; Chandler, A.M.</i></p> <p>Analysis of Shearing Stiffness of Column related to External Forces in Frames <i>Wu, B.</i></p> <p>Time Dependent Differential Shortening of Reinforced Concrete Columns in Tall Building <i>Lee, K.W. &amp; Lo, S.H.</i></p>	<p><b><u>Session B1-1: Seismic Engineering (1)</u></b></p> <p>Chairman: Prof. X.L. Lu</p> <p>Design of Energy Dissipation-seismic Reduction of One Tall Building and it's Shaking Table Test Verification <i>Chao, S., Yang, F. &amp; Qing, W.</i></p> <p>Dynamic Characteristics and Seismic Response Analysis of Multi-tower Structure Connected with Circular Corridor <i>Zheng Y. &amp; Chen, Y.</i></p> <p>Finite Element Analysis on Seismic Properties of Mid High-rise Steel Braced Frame <i>Huang, Y., Wang, Y.Q., Chen, H. &amp; Shi, Y.J.</i></p> <p>Comparative Research on Displacement Control Scheme of High-rise Building in High Seismic Intensity Area <i>Gu, W.</i></p> <p>Design Principles of Asymmetrical Building subject to Horizontal Earthquake and Application in Shen Zhen International Mayor Building <i>Wei, L., Wang, S. &amp; Yuan C.M.</i></p>	<p><b><u>Session C1-1: Foundation (1)</u></b></p> <p>Chairman: Prof. Y. Yuan</p> <p>A Study on Largest Scale Super-high Riverscape Deluxe Residential Building-foundation Interaction in China <i>Gong, J., Zhao X. &amp; Zhang, B.</i></p> <p>Real-time Control of Internal Force of Retaining Structure for the Deep Pit <i>Li, S., Sun, M. &amp; Xu, W.</i></p> <p>Prediction of Behavior of Piled Raft Foundation for Shanghai World Financial Center of 101-Storey using Comparison Concept <i>Gong, J., Zhao, X. &amp; Zhang, B.</i></p> <p>Piled Raft Design Process for a High-rise Building on the Gold Coast, Australia <i>Moyes, P., Poulos, H.G., Small, J.C. &amp; Badelow, F.</i></p> <p>A Field Study on Super-tall Building/Super-long Pile/Thick Raft Interaction in Shanghai <i>Fan, Q., Dai, B. Deng, W., Ai, Z. &amp; Zhao, X.</i></p>	<p><b><u>Session D1-1: Sustainability Assessment</u></b></p> <p>Chairman: Mr. K.K. Li</p> <p>The New Intelligent Building Index (IBI) for Buildings around the World – A Quantitative Approach in Building Assessment and Audit Experience with the Hong Kong Tallest Building, Two International Finance Centre (420m and 88-storey High) <i>Chow, L.K.H.</i></p> <p>Tall Buildings: Measures of Green and Sustainable! <i>Burnett, J.</i></p> <p>Hong Kong Building Environmental Assessment Method <i>Chan, P. &amp; Chu, C.</i></p> <p>The Cultural Shift of the Construction Industry of Hong Kong under the Influence of Sustainable Development <i>Poon, C.S. &amp; Yip, R.C.P.</i></p> <p>Ecological Energy Consumption Serialization of High-rise Housing in Shanghai <i>Song, D. &amp; Guo, F.</i></p>
12:25pm – 1:50pm	<i>Lunch (Orchid Room - Lower Level 2)</i>			

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<b>Time</b>	<b>Fanling Room / Grand Ballroom</b>	<b>Lotus and Jasmine Room</b>	<b>Shek-O Room</b>	<b>Tai Po Room</b>
1:50pm – 3:15pm	<p><b><u>Session A1-2: Case Studies (1)</u></b></p> <p>Chairman: Dr. E.O.W. Wong</p> <p>Tubular Systems for Tall Office Buildings with Special Cases from Turkey <i>Sev, A.</i></p> <p>Differential Deformations of Columns and Cores in Tall Buildings – Assessment, Monitoring and Correction Measures <i>Boonlualoah, S., Fragomeni, S., Loo, Y.C. &amp; Baweja, D.</i></p> <p>China Central Television New Headquarters, Beijing, China <i>Carroll, C., Duan, X., Gibbons, C., Lawson, R., Lee, A., Luong, A., McGowan, R. &amp; Pope, C.</i></p> <p>The Structural Design and Construction of “Three Pacific Place”, Hong Kong SAR, China <i>Ng, G.S.L. &amp; Tsang, P.S.C.</i></p> <p>Sustainable Development and Structural Optimization <i>Jiang, H.C.</i></p>	<p><b><u>Session B1-2: Wind Engineering (1)</u></b></p> <p>Chairman: Prof. M.S. Cheung</p> <p>Wind Tunnel Studies on the Behavior of a High-rise Building <i>Zheng, S. &amp; Xue, S.</i></p> <p>Wind Tunnel and CFD Studies on Wind Flow around a High-rise Building with a Refuge Floor <i>Cheng, C.C.K., Lam, K.M., Yuen, R.K.K. &amp; Lo, S.M.</i></p> <p>Wind-induced Vibration Response Analysis of Long Span Steel Spatial Corridor <i>Zheng, Y. &amp; Cheng X.</i></p> <p>Integration of GPS with Accelerometer for Measuring Total Displacement Response of Tall Buildings <i>Chan, W.S., Xu, Y.L. &amp; Ding, X.L.</i></p>	<p><b><u>Session C1-2: Foundation (2)</u></b></p> <p>Chairman: Prof. H.G. Poulos</p> <p>Simplified Dynamic Finite-element Analysis for Three-dimensional Pile-grouped-raft-high-rise Buildings <i>Xiong, H., Lu, X. &amp; Huang, L.</i></p> <p>Soil Response and Group Interactions in Torsionally Loaded Large-diameter Bored Pile Groups <i>Zhang, L. &amp; Tsang, C.Y.M.</i></p> <p>Ground Movements due to Excavation with Lateral Supporting Systems <i>Lau, T.W. &amp; Yang, J.</i></p> <p>Limiting Force Profile and Laterally Loaded Pile Groups <i>Guo, W.D.</i></p> <p>Practice of ‘2 in 1’ Technology in Design and Construction of Deeply Excavated Foundation for High-rise Building <i>Chen, S. &amp; Xu, X.</i></p>	<p><b><u>Session D1-2: Urban Planning and Development</u></b></p> <p>Chairman: Ms. A.Y.S. Fung</p> <p>Better Underground Utility Services Design for Sustainable Cities <i>Lam, K.C.</i></p> <p>Earth Environmental Problems in City Construction <i>Ma, B. &amp; Lin, L.</i></p> <p>Pilot Study on Perceptions and Use of Public Open Space in Compact Mixed Use Developments in Hong Kong <i>Coorey, S.B.A. &amp; Lau, S.S.Y.</i></p> <p>The Effects of Compact Neighborhood Design on Pedestrian Behavior in Contemporary Chinese Cities – Cases Studies from Urban Guangzhou <i>Ou, Y., Jia, B. &amp; Lau, S.S.Y.</i></p> <p>The Relationship between Water and Landscape <i>Liu, J.</i></p>
3:15pm – 3:35pm	<i>Tea Break</i>			

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<b>Time</b>	<b>Fanling Room / Grand Ballroom</b>	<b>Lotus and Jasmine Room</b>	<b>Shek-O Room</b>	<b>Tai Po Room</b>
3:35pm – 5:00pm	<p><b><u>Session A1-3: Transfer Structure</u></b></p> <p>Chairman: Prof. H.C. Chan</p> <p>Scheme Comparison between Primary Beam and Secondary Beam in the Transfer Structure of Tall Buildings <i>Liu Y. &amp; Lin R.</i></p> <p>Analysis of Transfer Plate Structures using 3D Coupling Element <i>Lo, S.H., Cheung, Y.K. &amp; Sze, K.Y.</i></p> <p>The Theoretical Analysis and Engineering Practice of Overlong Jointless Transfer Structures <i>Zhou, S. &amp; Gu W.</i></p> <p>Measures to Alleviate Shrinkage Problems in Large Reinforced Concrete Podium Structures <i>Liu, C.H., Au, F.T.K. &amp; Lee, P.K.K.</i></p>	<p><b><u>Session B1-3: Computer Modelling and Analysis (1)</u></b></p> <p>Chairman: Prof. P.T.Y. Chang</p> <p>The Research and Development of Post-processing System for CAD of High-rising Steel Building based on 3D Solid Model <i>Chang, Z., Yang, H. &amp; Zhang, Q.</i></p> <p>Optimization of Reinforced Concrete Structures with Genetic Algorithm <i>Wong, K.I. &amp; Lo, S.H.</i></p> <p>Optimum RC Structural Design System Builds-C in an Intelligent Building Design System i-Builds <i>Choi, C.K., Kwak, H.G. &amp; Kim, J.E.</i></p> <p>Multilevel Optimization for Structural Design of Tall Buildings <i>Gong, H., Chang, T.Y.P., Li, G.Q. &amp; Chen, Q.</i></p> <p>Nonlinear Finite Element Analysis of Reinforced Concrete Frame under Different Lateral Loading Patterns <i>Jia, X., Liu, X. &amp; Yuan, Y.</i></p>	<p><b><u>Session C1-3: Innovative Technology</u></b></p> <p>Chairman: Mr. M. Arnold</p> <p>Optimization of Scaffold Supporting System for Slab Transfer Storey <i>Cai, S., Chen, Z. &amp; Huang, Y.</i></p> <p>Dynamical property analysis of self-climbing scaffold in high-rise building <i>Chen, C., Xie, X. &amp; Xu, W.</i></p> <p>Working State Analysis and Hydraulic System Design for Excavator <i>Uk, R.Y., Liu, Z. &amp; Huang, C.</i></p> <p>Research on Intelligent Control of Bulldozer's Transmission <i>Zhang, C., Liu, Z. &amp; Du, F.</i></p> <p>Innovative Design and Construction Technologies for Building Internal Partitions for Super Hi-rise Buildings on an International Basis <i>Abomuslim, S. &amp; Russell, A.D.</i></p>	<p><b><u>Session D1-3: Urban Living Space</u></b></p> <p>Chairman: Mr. S.S.Y. Lau</p> <p>Fantasy and Spatiality High-rise Living Buildings in Contemporary Chinese Cities <i>Li, H.</i></p> <p>Property Price, Floor Level, and Building Density <i>Wong, S.K., Chau, K.W., Yau, Y. &amp; Cheung, A.K.C.</i></p> <p>Air Quality and Property Prices in High Density Urban Areas <i>Chan, A.T., Chau, K.W., Wong, S.K. &amp; Lam, K.</i></p> <p>A Study of Microclimate Conditions in Outdoor Spaces of High-rise Residential Developments <i>Giridharan, R., Tai, J. &amp; Lau, S.S.Y.</i></p> <p>An Initial Environmental-epidemiological Analysis of the Spread of SARS at a High-rise Housing Estate in Hong Kong <i>Lai, L.W.C., Chau, K.W., Ho, D., Lam, G. &amp; Lin, V.</i></p>
6:00pm – 8:00pm	<i>Welcoming Reception (Venue: Hong Kong Club, Central) *</i>			<i>Dress Code: Dinner Attire - Jacket &amp; Tie (No Denim)</i>

Note: \* Except all student registrants

# 6<sup>th</sup> International Conference on Tall Buildings

## Mini Symposium on Sustainable Cities

## Mini Symposium on Planning, Design and Socio-Economic Aspects of Tall Residential Living Environment

7<sup>th</sup> December 2005 (Day 2)

Time	Fanling Room / Grand Ballroom	Lotus and Jasmine Room	Shek-O Room	Tai Po Room
9:00am – 10:30am	<p>Chairman: Prof. Y.S. Li</p> <p>Keynote lecture:            Future Directions for the Development            of Tall Buildings  <i>Ir Peter Ayres</i>            Ove Arup &amp; Partners HK            Ltd., HKSAR</p> <p>Theme lecture:            Policies and Planning of Tall Buildings            in Hong Kong  <i>Mr. Marco Wu</i>            Director            Buildings Department, HKSAR</p> <p>Theme lecture:            The Shifting Paradigms of High-Rise            Living  <i>Dr. Belinda Yuen</i>            Associate Professor            National University of            Singapore, Singapore</p> <p>Theme lecture:            The Challenge of Managing the 88-            Storey Two International Finance            Centre in Hong Kong  <i>Mr. Thomas H.K. Ho</i>            Property Director            Mass Transit Railway Corp.            HKSAR</p>			
10:30am – 10:50am	<i>Tea Break</i>			

7<sup>th</sup> December 2005 (Day 2)

Time	Fanling Room / Grand Ballroom	Lotus and Jasmine Room	Shek-O Room	Tai Po Room
10:50am – 12:15pm	<p><b><u>Session A2-1: R.C. Structure</u></b></p> <p>Chairman: Ir K.K. Choy</p> <p>Concurrent Flexural Strength and Ductility Design of Normal and High-strength Concrete Beams <i>Ho, J.C.M. &amp; Kwan, A.K.H.</i></p> <p>Complete Nonlinear Behaviour of Normal- and High-strength Concrete Beams under Cyclic Loading <i>Bai, B.Z.Z. &amp; Au, F.T.K.</i></p> <p>Numerical Study of Plate Strengthened Deep RC Coupling Beams with Dynamic Set Anchors <i>Su, R.K.L. &amp; Zhu, Y.</i></p> <p>A Method for Determining Optimum Locations and Number of Stiffening Coupling Beams in Coupled Shear Wall Structure <i>Liu, Q., Liang, X. &amp; Deng, M.</i></p> <p>A Breakthrough in Precasting of Public Housing Blocks in Hong Kong <i>Lam, S.C., Chung, K.C. &amp; Sham, S.W.</i></p>	<p><b><u>Session B2-1: Computer Modelling and Analysis (2)</u></b></p> <p>Chairman: Prof. S.H. Lo</p> <p>Study on Interactive Graphical Input and Calculation System of Frame Joint <i>Xu, Q., Zhang, Q. &amp; Yang, H.</i></p> <p>IFC Based Design Integration Between Architectural and Structural Models <i>Deng, X.Y., Chang, T.Y.P. &amp; Wang, G.J.</i></p> <p>Study on Tall Building Structure Analysis <i>Liu, H. &amp; Zhao, N.</i></p> <p>Application of Integrated CAD Framework in Tall Building Design <i>Long, J., Kuang, J.S. &amp; Chang, T.Y.P.</i></p> <p>Virtual Implementation of RC Frames Push-over Test based on the Object-oriented Programming Method <i>Zhou, Y., Liu, X. &amp; Yuan, Y.</i></p>	<p><b><u>Session C2-1: Foundation (3)</u></b></p> <p>Chairman: Dr. A.T. Yeung</p> <p>Numerical Analysis of the Soil-foundation-supporting Pile-high-rise Building Dynamic Interaction System <i>Li, P., Lu, X., Zhang, H. &amp; Chen, Y.</i></p> <p>An Analytical Model to Estimate Load Capacity Possessed by Supporting Soil for Piled Raft Foundations <i>Zhu, C., Yan, X. &amp; Bi, S.</i></p> <p>Three-Dimensional Analysis of Torsionally Loaded Large-diameter Bored Pile Groups <i>Zhang, L. &amp; Tsang, C.Y.M.</i></p> <p>Design and Construction of the Joint Node used in the Deep Foundation of Top-down Construction Method <i>Zhao, Q. &amp; Xie, J.</i></p> <p>Design Principle for Large-area Thick Raft Foundation under Tall Buildings <i>Gong, J.F., Huan, X.L. &amp; Teng, Y.J.</i></p>	<p><b><u>Session D2-1: Energy Efficiency, New and Renewable Energy</u></b></p> <p>Chairman: Ir R.S. Chin</p> <p>A Systemic Simulation Model and Experiments on Vertical Ground Heat Exchangers in GCHP Systems <i>Cui, P., Yang, H. &amp; Fang, Z.</i></p> <p>Future Living – Safe, Smart and Efficient Use of Energy <i>Chow, F.T.</i></p> <p>Implication of Solar Chimney Size for Ventilation <i>Haase, M. &amp; Amato, A.</i></p> <p>Building Devices Control System based on Ethernet and CAN and its Application in Lighting Scene Project <i>Xu, A., Zhang, Z., Liu, J., Li, R. &amp; Ding, C.</i></p> <p>Design Characteristics of the Electric System for Provincial Mobile Telecommunications Hub Building <i>Na, H.</i></p>
12:15pm – 1:50pm	Lunch (Orchid Room - Lower Level 2)			

2:00pm – 5:00pm

Technical Visit to The Arch and The Mega Tower, Kowloon

7<sup>th</sup> December 2005 (Day 2)

Time	Fanling Room / Grand Ballroom	Lotus and Jasmine Room	Shek-O Room	Tai Po Room
1:50pm – 3:15pm	<p><b><u>Session A2-2: Case studies (2)</u></b></p> <p>Chairman: Dr. M.M. Kumaraswamy</p> <p>Structural Design Challenges for Twin Tower of “Gate to the East”, Suzhou China <i>Tsui, J., Gibbons, C., Kwok, M. &amp; Ng, G.</i></p> <p>The Structural Design of the Mega Tower, China World Trade Centre Phase 3, Beijing, China <i>Kwok, M., Gibbons, C., Tsui, J. Liu, P., Wang, Y. &amp; Ho, G.</i></p> <p>The Construction Tracing and Simulating Analysis for High-rise Leaning Steel Building Structures <i>Guo, Y.L., Dong, Q.L. &amp; Hu, D.B.</i></p> <p>Steel Structure Design of Zhongguancun Financial Center Tower <i>Fan, Z. &amp; Hu, C.</i></p> <p>The Choice of Structural Forms and Use of Structural Materials of Three Landmark Tall Buildings in Hong Kong: Central Plaza, Two International Finance Centre, International Commerce Centre <i>Luk, J.W.K., Ayres, P., Gibbons, C., Lee, A., Luong, A., Chan, G., Lam, K. &amp; Yau, J.</i></p>	<p><b><u>Session B2-2: Living Environment (1)</u></b></p> <p>Chairman: Prof. A.G.O. Yeh</p> <p>Can we Live ‘High and Healthy’? <i>Townsend, M.</i></p> <p>The Problems and their Technological Solutions of Supertall Living in Tokyo Area <i>Kamiya, H. &amp; Konami, H.</i></p> <p>How willing are we to Live in Tall(er) Housing? <i>Yuen, B., Yeh, A., Appold, S.J., Earl, G., Ting, J. &amp; Kwee, L.K.</i></p> <p>Age-segregation and Quality of Life of the Elderly in Studio Apartments <i>Addae-Dapaah, K.</i></p> <p>Delineation of View Rights in Development of High-rise Buildings – The Case of Vancouver <i>Lorne, F., Cheung, D.T.M. &amp; Ye, A.M.</i></p>	<p><b><u>Session C2-2: Seismic Engineering (2)</u></b></p> <p>Chairman: Ir P. Ayres</p> <p>Elastic Seismic Analysis of RC Core-Tube Steel Frame Hybrid Structures with Different Damping Models <i>Wang, Y., Wen, H. &amp; Wang, F.</i></p> <p>Variable Friction Dampers for Earthquake Protection of Coupled Building Structures <i>Ng, C.L. and Xu, Y.L.</i></p> <p>The Application of Push-Over Analysis in Seismic Design of Building Structures Procedures <i>Fu, C.S. and Ying, J.</i></p> <p>A New Method of Evaluating Damage of RC Frame Structure under Earthquake Force <i>Li, W. &amp; Ying, H.</i></p> <p>Study on Optimal Shear Wall Quantity of Frame-Shear Wall Structures in Earthquake Zone <i>Huang, S. &amp; Song, K.</i></p>	<p><b><u>Session D2-2: Sustainable Development – Cases</u></b></p> <p>Chairman: Mr. V.K.C. Tse</p> <p>The New Police Headquarters – Arsenal Street, Wanchai, Small Footprint, Big Expectations <i>Wilson, A., Yeung, A. &amp; Fung, A.</i></p> <p>Sustainability of a tall building in Hong Kong – Two International Finance Center <i>Wong, E. &amp; Lam, B.</i></p> <p>Suggesting a New Lifestyle in Asia Roppongi Hills in the very heart of Tokyo, A Compact Neighborhood where Workplaces and Residences are with Close Proximity – A Model for the Next Decade <i>Watahiki, M. &amp; Namba, H.</i></p> <p>Air Quality and High-Rise High-Density Residential Environment in Hong Kong <i>Edussuriya, P.S. &amp; Ye, A.M. &amp; Chan, A.T.Y.</i></p> <p>Two IFC <i>Leung, J. &amp; To, A.</i></p>
3:15pm – 3:35pm	<i>Tea Break</i>			

7<sup>th</sup> December 2005 (Day 2)

<b>Time</b>	<b>Fanling Room / Grand Ballroom</b>	<b>Lotus and Jasmine Room</b>	<b>Shek-O Room</b>	<b>Tai Po Room</b>
3:35pm – 5:00pm	<p><b><u>Session A2-3: Steel Structure</u></b></p> <p>Chairman: Dr. K.S. Law</p> <p>Experimental Investigation and Simulation Analysis of New Steel Shear Walls with Slits <i>Wei, D., Wen, P. &amp; Li, L.</i></p> <p>Effects of Transverse Welds on Aluminum Tubular Columns <i>Zhu, J. &amp; Young, B.</i></p> <p>Experimental Investigation of Cold-formed High Strength Stainless Steel Compression Members <i>Young, B. &amp; Lui, W.M.</i></p> <p>Static Behavior of Buckling-Restrained Steel Plate Shear Walls <i>Guo Y.L. &amp; Dong, Q.L.</i></p> <p>Optimized Location of Energy-dissipation Braces in Tall Buildings with Irregular Floors <i>Chao, S., Yang, F. &amp; Hu, Y.</i></p>	<p><b><u>Session B2-3: Living Environment (2)</u></b></p> <p>Chairman: Dr. B. Yuen</p> <p>Mixed-Use High Rise in the UK; An Urban Renaissance <i>Wood, A.</i></p> <p>Super Tall Building Living in High Density Cities – A Comparison of Hong Kong and Singapore <i>Yeh, A. &amp; Yuen, B.</i></p> <p>Solving Externalities Problems using Innovative Architectural Design <i>Wong, W.S., Lorne, F. &amp; Chau, K.W.</i></p> <p>Total Building Evacuation Strategy for High Rise Buildings <i>Wong, K.H.L. &amp; Luo, M.C.</i></p> <p>Optimized Interior Space Design of Small High-rising Flats <i>Wu, Y.</i></p>	<p><b><u>Session C2-3: Seismic Engineering (3)</u></b></p> <p>Chairman: Dr. J. Luk</p> <p>Multi-mode Control of Coupled Lateral-torsional Vibration of Asymmetrical Tall Buildings <i>Huang, S., Song, K., Jiang, L. &amp; Yi, H.</i></p> <p>Displacement-based Seismic Design of Shear Wall Structure in Tall Buildings <i>Liang, X., Deng, M., Li, B. &amp; Yang, K.</i></p> <p>The Update Philosophy of Aseismic Design for Cast-in-situ RC Building Structures <i>Fu, X.</i></p> <p>Reliability-based Seismic Performance Design Optimization of Reinforced Concrete Buildings <i>Zou, X.K. &amp; Li, Q.S.</i></p> <p>Optimal Seismic Performance Design of Reinforced Concrete Frames Based on Life-Cycle Cost <i>Zou, X., Chan, C. &amp; Li, G.</i></p>	<p><b><u>Session D2-3: Management Issues (1)</u></b></p> <p>Chairman: Mr. T.O.S. Ho</p> <p>Applying Wireless Transmission Technique to Improve Construction Management in Tall Buildings <i>Lin, L.K., Cheng, C.L., Li, S.X. &amp; Lin, P.C.</i></p> <p>Distinguishing the Decrepit from the Old: Is Building Age a Good Proxy for Building Performance? <i>Wong, S.K., Cheung, A.K.C., Yau, Y., Chau, K.W. &amp; Ho, D.C.W.</i></p> <p>Fire Disaster and Prevention Management of Tall Buildings <i>Lin, L.K., Wang, C.H., Chan, C.T. &amp; Lin, H.C.</i></p> <p>A Study on the Debonding of External Wall Tile for High-rise Buildings in Hong Kong <i>Lo, S.M., Ho, C.W., Yiu, E.C.Y., Yang, D.Q. &amp; Man, A.S.K.</i></p> <p>Sprinkler System Design for Auditorium in the Theatre <i>Lui Z.R. &amp; Fan, S.J.</i></p>
7:00pm – 10:00pm	<i>Conference Dinner (Serenade Chinese Restaurant, Tsim Sha Tsui) *</i>			

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## Mini Symposium on Sustainable Cities

## Mini Symposium on Planning, Design and Socio-Economic Aspects of Tall Residential Living Environment

8<sup>th</sup> December 2005 (Day 3)

Time	Fanling Room / Grand Ballroom	Lotus and Jasmine Room	Shek-O Room	Tai Po Room
9:00am – 10:30am	<p>Chairman: Prof. J. Wang</p> <p>Keynote lecture: Carbon Fuels and Industrialisation: Reduction of Energy Demand with Special Reference to Tall Buildings <i>Prof. Max Fordham</i> Director Max Fordham LLP, UK</p> <p>Theme lecture: A City Beyond Tall Buildings - Rediscover City Value and People Value <i>Mrs. Ng Fong Siu Mei</i> Director Friends of the Earth, HKSAR</p> <p>Theme lecture: Sustainable Tall Buildings - From an Energy Perspective <i>Ir Otto Poon</i> Chairman Strategic Subcommittee, Council for Sustainable Development HKSAR</p> <p>Theme lecture: Brief Introduction to Chinese Revised Technical Specification for Concrete Structures of Tall Building <i>Prof. Huang Xiaokun</i> China Academy of Building Research, China</p>			
10:30am – 10:50am	<i>Tea Break</i>			

8<sup>th</sup> December 2005 (Day 3)

Time	Fanling Room / Grand Ballroom	Lotus and Jasmine Room	Shek-O Room	Tai Po Room
10:50am – 12:15pm	<p><b><u>Session A3-1: Composite Structure</u></b></p> <p>Chairman: Dr. F.T.K. Au</p> <p>Design and Research for a Tall Building of Concrete Filled Square Steel Tube <i>Ding, J., Chao, S. &amp; Chen, J.</i></p> <p>Experimental Study on Concrete-filled Steel Tube Structure subjected to Compression and Bending in High Rise Buildings <i>Chao, S. &amp; Wu, M.</i></p> <p>Experimental Investigation of Concrete-filled High Strength Stainless Steel Tube Columns for Tall Building Construction <i>Young, B. &amp; Ellobody, E.</i></p> <p>Structural Analysis of the Apartment Tower of Fortune Center Phase II Sited in Beijing <i>Zhang, T., Xiao, Z., Li, L., Zhang, R. &amp; Lui, B.</i></p> <p>Composite (Hybrid) Systems for Tall Buildings <i>Sev, A.</i></p>	<p><b><u>Session B3-1: Management Issues (2)</u></b></p> <p>Chairman: Prof. K.W. Chau</p> <p>A Framework for Monitoring Rework in Building Projects <i>Palaneeswaran, E., Kumaraswamy, M.M., Ng, S.T. &amp; Love, P.</i></p> <p>Cost Comparison Study of Plasterboard Drywall Partitions vs. Traditional Masonry/Concrete Partitions in High-rise Residential Buildings, Shanghai <i>Chen, S.</i></p> <p>Study on the Economical Efficiency and Performance Comparison between Reinforced Concrete Hollow Girderless Floor and Common Floors <i>Wu, X., Xiong, X. &amp; Huang, D.</i></p> <p>Enabling Automation in Tall Building Works with Wireless Technologies and Tagging Devices <i>Palaneeswaran, E., Ng, S.T., Kumaraswamy, M.M. &amp; Cheung, D.W.</i></p> <p>Criterion to Evaluate the High Office Building <i>Wang, J. &amp; Zhu H.F.</i></p>	<p><b><u>Session C3-1: Seismic Engineering (4)</u></b></p> <p>Chairman: Ir P.K.K. Lee</p> <p>Modeling and Seismic Behavior of Concrete-filled Rectangular Steel Tubular Columns in Tall Buildings <i>Li, X. &amp; Lu, X.</i></p> <p>Shaking Table Test and Analysis of a Complicated CFRT Frame Structure <i>Meng, C., Lu, X., Lu, W. &amp; Zhao, B.</i></p> <p>Preliminary Experimental Research on the Feasibility of Pouring R.C. Frame Joints with the Same Strength Concrete as Beams <i>Li, Y., Zheng, N., Ji, S., Zhao, X. &amp; Shan, L.</i></p> <p>Experimental Study on Super High-rising Building <i>Lu, X., Zou, Y., Lu, W. &amp; Zhao, B.</i></p> <p>Experimental Study on Shear Strength of Exterior Beam-column Joints with Different Types of Beam Bar Anchorages <i>Wong, H.F. &amp; Kuang, J.S.</i></p>	<p><b><u>Session D3-1: Sustainable Design</u></b></p> <p>Chairman: Prof. C.S. Poon</p> <p>A Study of Architectural Design Factors for Tall Office Buildings with Regional Climates based on Sustainability <i>Cho, J.S.</i></p> <p>Are Re-entrants Good or Bad? An Empirical Test in Hong Kong <i>Wong, S.K., Yau, Y., Cheung, A.K.C., Chau, K.W. &amp; Ho, D.C.W.</i></p> <p>Towards Bioclimatic High-rise Buildings: Is a Bioclimatic Design Approach Appropriate for Improving Environment Performance of High-rise Buildings? <i>Law, J.</i></p> <p>Development in Enhancing the Standards of Lift Installation for Tall Building <i>Mok, C.K., Wu, E.W.K. &amp; Mui, S.Y.</i></p> <p>A Discussion on Design &amp; Technology of Energy-saving Environmental-friendly High-rise Buildings <i>Yan, H. &amp; Chen, M.</i></p>
12:15pm – 1:50pm	Lunch (Orchid Room - Lower Level 2)			

8<sup>th</sup> December 2005 (Day 3)

<b>Time</b>	<b>Fanling Room / Grand Ballroom</b>	<b>Lotus and Jasmine Room</b>	<b>Shek-O Room</b>	<b>Tai Po Room</b>
1:50pm – 3:15pm	<p><b><u>Session A3-2: Other Structural Aspects</u></b></p> <p>Chairman: Prof. A.K.H. Kwan</p> <p>Construction Technology for Super High-rise Buildings <i>Yao, Y., Zhang, S. &amp; Huang, H.</i></p> <p>Collapse of a Piled Industrial Building due to Surcharge Loads <i>Zhu, B.T. and Yang, M.</i></p> <p>Research on the Application of Pre-Stressed Technology to Floor of Super Tall Building <i>Xiong, X., Cai, Y. &amp; Wang, J.</i></p> <p>Effect of Concrete Strength on Shear Resistance of Stud Connectors and Moment Resistance of Composite Beams <i>Hu, X., Yang, W. &amp; Zhang, Q.</i></p> <p>Research on Calculating Methods of Storey Drift for Reinforced Concrete Shear Wall Structures <i>Deng, M., Liang, X. &amp; Liu, Q.</i></p>	<p><b><u>Session B3-2: Foundation (4)</u></b></p> <p>Chairman: Prof. J.D. Zhao</p> <p>Vertically Loaded Single Piles in Sand Subjected to Lateral Soil Movement <i>Guo, W.D. &amp; Qin, H.Y.</i></p> <p>Response of Axially Loaded Pile Groups subjected to Lateral Soil Movement – An Experimental Investigation <i>Guo, W.D. &amp; Ghee, E.H.</i></p> <p>Development of the Apparatus for Quality Control of Rushed Stone Pile <i>Chen, L., Liu, Z., Wang, B. &amp; Liu, J.</i></p> <p>Experimental Study on Reinforced-at-high-stress-region Soil-cement Retaining Structure for Deep Foundation Pit <i>Zhu, D.</i></p> <p>Concept of Plastically Bearing Pile and its Engineering Application <i>Zai, J., Mei, G., Wang, X., Zhou, F., Pei, J. &amp; Liao, H.</i></p>	<p><b><u>Session C3-2: Wind Engineering (2)</u></b></p> <p>Chairman: Dr. H.W. Pang</p> <p>Parameters Affecting Wind-driven Rain and its Effect on High-rise Buildings <i>Choi, E.C.C.</i></p> <p>Wind-induced Dynamic Response Analysis for Power Transmission Tower by PDEM <i>Zhang, L. &amp; Li, J.</i></p> <p>Effects on Nonlinear Damping and Time Constant on Wind-induced Responses of a 79-Storey Tall Building <i>Wu, J.R., Liu, P.F. &amp; Li, Q.S.</i></p> <p>Wind Load Estimation for a Practical Tall Building Considering Topographical Effect <i>Li, Y., Liu, Z., Xia, J. &amp; Tamura, Y.</i></p>	<p><b><u>Session D3-2: Post-Occupancy Operation, Maintenance and Management</u></b></p> <p>Chairman: Mr. R.C.P. Yip</p> <p>Energy Efficiency Towards Sustainability <i>Wong, E. &amp; Chan, E.K.S.</i></p> <p>Sampling Point Densities for Assessing Indoor Air Quality <i>Hui, P. S., Wong, L.T. &amp; Mui, K.W.</i></p> <p>Hong Kong: Road to Super Sustainable City <i>Yeung, C.C.T. &amp; Lee, K.L.T.</i></p> <p>Developing a Life Cycle Assessment Tool for Commercial Buildings in Hong Kong <i>Leung, W. &amp; Tam, W.K.</i></p> <p>Changing the Social and Economic Fabric of Singapore <i>Johnson, T.</i></p>

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