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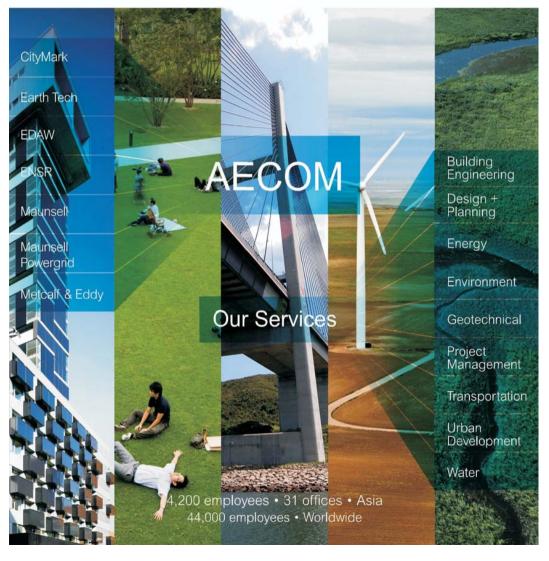
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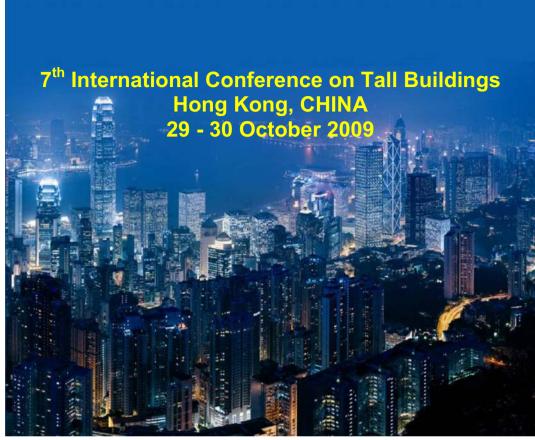
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7th International Conference on Tall Buildings

InterContinental Grand Stanford Hotel, 70 Mody Road Tsimshatsui East, Kowloon, Hong Kong 29 – 30 October 2009

Foreword

On behalf of the Organising Committee, it is our pleasure to welcome you all to the Seventh International Conference on Tall Buildings organised by The University of Hong Kong, and co-organised by The Hong Kong Institution of Engineers and The Hong Kong Institute of Architects.

Since the turn of the 21st century, tall buildings with growing heights, increasingly complicated shapes and innovative structural systems have been built worldwide. China has now become one of the countries in the world where tall buildings are being developed. The new CCTV headquarters building with a unique shape has been finished. The 432-meter Pearl River New City West Tower in Guangzhou has been constructed up to 350 meters high. The construction of the proposed 580-meter Shanghai Center will start at the end of this year. The recent Wenchuan earthquake in Sichuan Province has especially highlighted serious cause for concern over the safety of building structures. All of these have made China a focus of world attention. The comfort, amenity and sustainability of these buildings have been the focus of world attention. In view of the numerous landmark skyscrapers being built all over the world, it is timely to organise an International Conference on Tall Buildings to allow experts and researchers worldwide to share information pertinent to the latest practise, lessons learnt, and research outcomes of tall buildings.

Tall buildings feature prominently in many of the infrastructure developments in Hong Kong namely in office and residential high-rise developments. Like other previous successful conferences in the series, the 7th International Conference on Tall Buildings (ICTB-VII) is founded on a series of prevailing themes ranging from innovative and sustainable design / construction aspects, to comfort and amenity of occupants and social-economic issues as well. The conference, therefore, provides a forum for all construction stakeholders to exchange ideas on how to further advance the development and management of tall buildings so as to fulfill the needs of the society and the end-users.

We would also like to express our sincere gratitude to the keynote and invited speakers and authors of all papers whose contributions have made this conference possible. Our thanks goes to all those who have devoted their time and effort in the organisation of the conference.

Hope you all have a pleasant stay and fruitful exchange in Hong Kong.

Y.K. Cheung The University of Hong Kong October 2009

The Cheung









Welcome Message

The 7th International Conference on Tall Buildings is an opportunity for experts and researchers from all around the world to share information related to tall buildings, in terms of the latest practice, lessons learnt, and research ideas and outcomes. It is a forum at which ideas can be exchanged on how to further advance the development and management of tall buildings for the needs of the society, clients, and those who use them. With high-rise residential properties in Hong Kong reaching record heights, the International Conference on Tall Buildings is particularly relevant to the Hong Kong community, and I look forward to seeing many innovative and pioneering ideas emerging from it.

This relationship with the Hong Kong community is one that HKU understands. The University has grown with Hong Kong, and many of our graduates have taken on positions of leadership in society. We will continue to move forward with this dedication to excellence, a strong international outlook, and a commitment to the Hong Kong community.

On behalf of The University of Hong Kong, may I offer my best wishes for another productive and memorable International Conference on Tall Buildings, and I congratulate all those who have worked so hard to make the event a success.

> Professor W.C. Chew Dean of Engineering The University of Hong Kong

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Programme Overview

29 October 2009 (Thursday)	30 October 2009 (Friday)
8:30am – 9:15am:	8:30am – 9:00am:
Registration	Registration
9:15am – 9:50am: (Picasso Room)	9:00am – 10:20am: (Picasso Room)
Opening Ceremony	Keynote Lectures
9:50am - 10:30am: (Picasso Room)	
Keynote Lecture	
10:30am – 11:00am: Tea Break	10:20am – 10:50am: Tea Break
11:00am - 12:20pm: (Picasso Room)	10:50am – 12:20pm:
Keynote Lectures	Session 3A: (Picasso Room) Sustainable Development and Green Engineering (II)
	Session 3B: (Monet Room A) Structural Identification and Retrofitting
	Session 3C: (Monet Room B) Concrete and Composite Structures (I)
12:20pm – 1:20pm: (Academy Room) Lunch	12:20pm – 1:20pm: (Academy Room) Lunch
1:20pm – 3:00pm:	1:20pm – 3:00pm:
Session 1A: (Picasso Room) Sustainable Development and Green Engineering (I)	Session 4A: (Picasso Room) Structural Forms and Optimization
Session 1B: (Monet Room A) Architectural and Planning Issues	Session 4B: (Monet Room A) Computer Modelling and Analysis/ Innovative Technology
S .	
Session 1C: (Monet Room B) Seismic Engineering (I)	Session 4C: (Monet Room B) Concrete and Composite Structures (II)
Seismic Engineering (I)	
Seismic Engineering (I) 3:00pm - 3:30pm: Tea Break	
Seismic Engineering (I)	Concrete and Composite Structures (II)
Seismic Engineering (I) 3:00pm - 3:30pm: Tea Break	Concrete and Composite Structures (II) 3:00pm - 3:30pm: Tea Break
Seismic Engineering (I) 3:00pm - 3:30pm: Tea Break 3:30pm - 5:00pm Session 2A: (Picasso Room)	Concrete and Composite Structures (II) 3:00pm - 3:30pm: Tea Break 3:30pm - 5:00pm Session 5A: (Picasso Room)
Seismic Engineering (I) 3:00pm - 3:30pm: Tea Break 3:30pm - 5:00pm Session 2A: (Picasso Room) Steel and other Metallic Structures Session 2B: (Monet Room A)	Concrete and Composite Structures (II) 3:00pm - 3:30pm: Tea Break 3:30pm - 5:00pm Session 5A: (Picasso Room) Case Studies Session 5B: (Monet Room A)
Seismic Engineering (I) 3:00pm - 3:30pm: Tea Break 3:30pm - 5:00pm Session 2A: (Picasso Room) Steel and other Metallic Structures Session 2B: (Monet Room A) Fire Engineering Session 2C: (Monet Room B)	Concrete and Composite Structures (II) 3:00pm - 3:30pm: Tea Break 3:30pm - 5:00pm Session 5A: (Picasso Room) Case Studies Session 5B: (Monet Room A) Vibration/ Wind Engineering Session 5C: (Monet Room B) Foundation
Seismic Engineering (I) 3:00pm - 3:30pm: Tea Break 3:30pm - 5:00pm Session 2A: (Picasso Room) Steel and other Metallic Structures Session 2B: (Monet Room A) Fire Engineering Session 2C: (Monet Room B)	Concrete and Composite Structures (II) 3:00pm - 3:30pm: Tea Break 3:30pm - 5:00pm Session 5A: (Picasso Room) Case Studies Session 5B: (Monet Room A) Vibration/ Wind Engineering Session 5C: (Monet Room B)

7th International Conference on Tall Buildings

Programme on 29th October 2009

Time	Picasso Room	
8:30 am – 9:15 am	Registration	
9:15 am – 9:50 am	Chairman: Albert K.H. KWAN	
7.50 am	Welcome speech W.C. CHEW Dean, Faculty of Engineering, The University of Hong Kong, Hong Kong	
	Opening address Patrick LAU LegCo Member (Architectural, Surveying and Planning Functional Constituency), Hong Kong	
9:50 am – 10:30 am	Chairman: Fred S.H. NG	
10.30 am	Keynote lecture: The Architect and the Structural Engineer:	
	Both Friends and Foes Leslie E. ROBERTSON	
	Leslie E. Robertson Associates, USA	
10:30 am – 11:00 am	Tea Break	
11:00 am – 12:20 pm	Chairman: Peter K.K. LEE	
12.20 pm	Keynote lecture: Harmonizing Tall Buildings in the Built Environment – from the Perspective of Building Control in Hong Kong Choi Kai AU	
	Buildings Department, The Government of HKSAR, Hong Kong	
	Keynote lecture: Holistic Considerations for Sustainable Tall Building Design Andrew CHAN	
	Arup Group Ltd., Hong Kong	
12:20 pm –	Academy Room (1/F)	
1:20 pm	Lunch	

Programme on 29th October 2009

Time	Picasso Room	
1:20 pm – 3:00 pm	Session 1A: Sustainable Development and Green Engineering (I) Chairman: Edmund C.C. CHOI and Edward NG Invited Paper: The Environmental Design of Tall Buildings in High Density Subtropical Cities Edward NG, Justin Zhengjun HE and Xipo AN Invited Paper: Air Ventilation in Cities with Dense High-Rise Developments and Complex Topography Edmund C. C. CHOI Designing Vital Urban Environments Timothy JOHNSON Strategizing Low Carbon and Low Energy Tall Buildings in China Han LIN, Hong WANG and David C.S. LEE High-performance Concrete for Green Construction Herbert W. ZHENG, Fiona W.Y. CHAN and Albert K. H. KWAN The Humanism of Cities and Development Strategy of Tall Buildings Liyong JIANG and Lu GAO	
3:00 pm – 3:30 pm	Tea Break	
oloo piii	Session 2A: Steel and other Metallic Structures	
	Chairman: Kang Hai TAN and Albert K.H. KWAN	
3:30 pm – 5:00 pm	Invited Paper: Application of Buckling-Restrained Braces in Steel Frameworks against Earthquakes	

Programme on 29th October 2009

Monet Room A	Monet Room B
Session 1B: Architectural and Planning Issues	Session 1C: Seismic Engineering (I)
Chairman: Anna KWONG and Ziona STRELITZ	Chairman: J.S. KUANG and H.H. TSANG
Access to and Manoeuvre in Super Highrise Building Artur C. K. AU YEUNG and Robert P.H. LAM	Performance-Based Design Approach for Seismic Design and its Application for Building Projects in China Edward S.C. CHAN, W.L. LEUNG and David C.S. LEE
A New Urbanity Stefan KRUMMECK Remaining Virtuous in a Climate of Decadence:	Experimental Study of Seismic Performance of Short T-Shaped Columns with Diagonal Reinforcing Bars Xuanming HUANG and Wanlin CAO
Delivery of Efficient and Practical Buildings in the Context of a Novelty-Minded Market Alexander LUSH	Performance-Based Seismic Design for High-Rise Buildings Man KANG, Yang WANG and Wei LIAO
Tall Buildings & Urban Livability in Hong Kong K. S. WONG	A Simplified MDOF Model for Seismic Analysis of Shea Wall-frame Structures J.S. KUANG and Kai HUANG
Analysis of Change in Dynamic Properties of Tall Buildings after Numbers of Earthquake Actions Weixing SHI and Jiazeng SHAN	Displacement-Based Rapid Seismic Assessment Procedure for Building Structures H.H. TSANG, R.K.L. SU, N.T.K. LAM and
Sustainable Vertical Transportation System for Our Next Generation Alkin KWONG	S.H. LO
Tea l	Break
Session 2B: Fire Engineering	Session 2C: Seismic Engineering (II)
Chairman: Peter K.K. LEE and Fei-fei SUN	Chairman: Edmund C.C. CHOI and H.H. TSANG
A Discussion on Technical Means of External Thermal Insulation Fireproofing	Seismic Response Analysis of National Hall of China Pavilion for Expo 2010 Shanghai Considering Traveling-
Guangqi JI and Jinping WANG Fireproof Performance Test Research on Building	waves Effects
Fireproof Performance Test Research on Building made of the Sandwich Panels of Steel Mesh Cement with EPS Guangqi JI, Chunling ZHU, Xiwei YANG, Xiaoling ZHANG, Baochun FENG, Yingshun WANG, Dexin ZHANG, Xiaoyuan HU and	waves Effects Hai-Tao BAI, Jiang QIAN and Jiang-Guang YUI Study on Seismic Behavior of RC Composite Perforated Core Wall with Concealed Steel Truss Subjected to Combined Action Weihua CHANG/Wanlin CAO/Dongbin LI/ Fuquan XU
Fireproof Performance Test Research on Building made of the Sandwich Panels of Steel Mesh Cement with EPS Guangqi JI, Chunling ZHU, Xiwei YANG, Xiaoling ZHANG, Baochun FENG, Yingshun WANG, Dexin ZHANG, Xiaoyuan HU and Jinping WANG Fire Fighting in High-Rise Building Shane Siu-hang LO	waves Effects Hai-Tao BAI, Jiang QIAN and Jiang-Guang YUI Study on Seismic Behavior of RC Composite Perforated Core Wall with Concealed Steel Truss Subjected to Combined Action Weihua CHANG/Wanlin CAO/ Dongbin LI/ Fuquan XU Seismic Performance Analysis Methodology of Large Span Architectural Curtain Walls Wensheng LU, Baofeng HUANG and
Fireproof Performance Test Research on Building made of the Sandwich Panels of Steel Mesh Cement with EPS Guangqi JI, Chunling ZHU, Xiwei YANG, Xiaoling ZHANG, Baochun FENG, Yingshun WANG, Dexin ZHANG, Xiaoyuan HU and Jinping WANG Fire Fighting in High-Rise Building	waves Effects Hai-Tao BAI, Jiang QIAN and Jiang-Guang YUI Study on Seismic Behavior of RC Composite Perforated Core Wall with Concealed Steel Truss Subjected to Combined Action Weihua CHANG/ Wanlin CAO/ Dongbin LI/ Fuquan XU Seismic Performance Analysis Methodology of Large Span Architectural Curtain Walls Wensheng LU, Baofeng HUANG and Wenqing CAO Static-Dynamic Earthquake Analysis for Vibration Reduction of Shear Wall Structure Based on Equivalent Storey Model
Fireproof Performance Test Research on Building made of the Sandwich Panels of Steel Mesh Cement with EPS Guangqi JI, Chunling ZHU, Xiwei YANG, Xiaoling ZHANG, Baochun FENG, Yingshun WANG, Dexin ZHANG, Xiaoyuan HU and Jinping WANG Fire Fighting in High-Rise Building Shane Siu-hang LO Experimental Research of Car-Fire Spread in Mechanical Parking Building Unit Affiliated to High Buildings	waves Effects Hai-Tao BAI, Jiang QIAN and Jiang-Guang YU. Study on Seismic Behavior of RC Composite Perforated Core Wall with Concealed Steel Truss Subjected to Combined Action Weihua CHANG/Wanlin CAO/ Dongbin LI/ Fuquan XU Seismic Performance Analysis Methodology of Large Span Architectural Curtain Walls Wensheng LU, Baofeng HUANG and Wenqing CAO Static-Dynamic Earthquake Analysis for Vibration Reduction of Shear Wall Structure Based on Equivalent

Time	Picasso Room	
8:30 am – 9:00 am	Registration	
9:00 am – 10:20 am	Chairman: H.C. CHAN Keynote lecture: Foundation System Design for Tall Buildings Harry POULOS Coffey Geotechnics, Australia Keynote lecture: From Mass Production to Mass Customization Ada Y.S. FUNG Housing Department, The Government of HKSAR, Hong Kong	
10:20 am –	Picasso Room	
10:50 am	Tea Break	
	Session 3A: Sustainable Development and Green Engineering (II)	
	Chairman: Andy DAVIDS and Ziona STRELITZ Invited Paper: Tall Buildings' Contribution to Sustainable Urbanisation and Growth: Less Take, More Give Ziona STRELITZ	
10:50 am – 12:20 pm	Invited Paper: A Postcard from Dubai Design and Construction of Some of the Tallest Buildings in the World Andy Davids, Julia Lai, Jonathan Wongso, Darko Popovic and Angus Mcfarlane	
	Green and Healthy Living in Public Housing N.M. CHAN, Rosa HO and Stephen YIM	
F	Quality Living in High Rise Domestic Buildings through Building Services Design Chi Shing HO	
	Sustainable Public Housing Two Decades of Transformation in Maintenance and Management	
	Practices H.W. PANG, C.O. CHAN, Allan WONG, L.S. CHAN and Virgil K.L. HSU	
12:20 pm –		

Programme on 30th October 2009

7th International Conference On Tall Buildings 29 – 30 October 2009

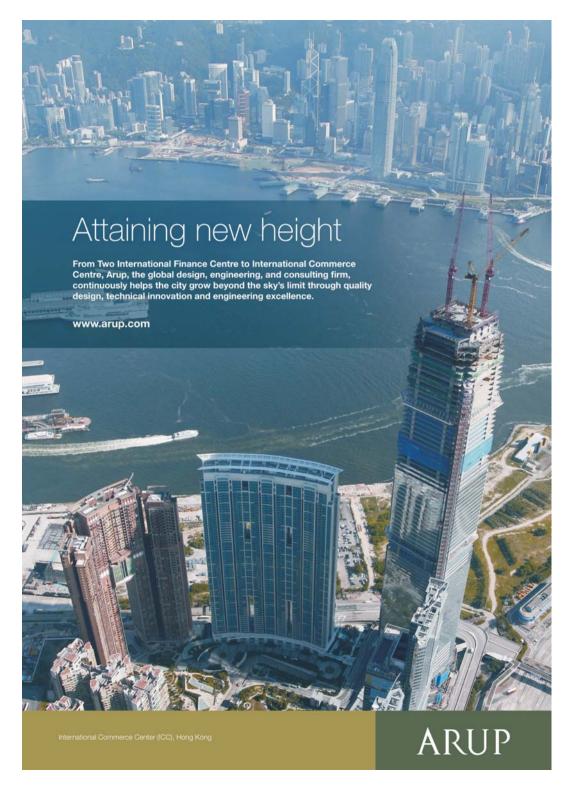
Monet Room A	Monet Room B
Tea Break	
Session 3B: Structural Identification and Retrofitting	Session 3C: Concrete and Composite Structures (I)
Chairman: H.F. LAM and R.K.L. SU	Chairman: J.C.M. HO and H.J. PAM
Detection of Multiple Cracks on a Partially Obstructed Plate Following the Bayesian Approach H.F. LAM, T. YIN and H.M. CHOW Optimal Sensor Placement Method for the Purpose of Structural Health Monitoring H.F. LAM, H.M. CHOW and T. YIN Post-compressed Plates for Strengthening	Improving Flexural Ductility of High-Strength Concrete Columns J.C.M. HO and A.K.H. KWAN Precast to last - Hong Kong Public Housing Experience Sze Chuen LAM and Kwok Chuen CHUNG Displacement-Based Deformation Capacity Design Method of Steel Reinforced Concrete Structural Walls with High Axial Load Ratio Kai Ze MA and Xingwen LIANG
Preloaded Rectangular Reinforced Concrete Columns R.K.L. SU and Lu WANG	Concrete Compressive Stress Distribution of RC Members Subjected to Flexure
Nonlinear Analysis of FRP-Reinforced Concrete Slabs with a Shear-Locking Free Layered Composite Plate Element	Jun PENG, Johnny Ching Ming HO, Hoat Joen PAM and Yuk Lung WONG
Yong ZHU, Sarah Y.X. ZHANG and R.K.L. SU	Cyclic Load Tests of Half Fabricated Half Cast-in-Place Composite RC Walls H.M. ZHANG, X.L. LU, J.B. LI, L. LU and
Effects of Material Strength on Flexural Ductility of Reinforced Concrete Columns Z.Z. BAI and Francis T.K. AU	L.G. WANG
Academy Room (1/F) Lunch	

Programme on 30th October 2009

Time	Picasso Room	
1:20 pm – 3:00 pm	Session 4A: Structural Forms and Optimization Chairman: Philip Kang Hai TAN and Chun-Man CHAN Invited Paper: Continuous Deep Beams on Spring Supports Philip Kang Hai TAN Improving the Cost and Value of Tall Buildings using Computational Design Optimisation Chun-Man CHAN and Mingfeng HUANG The Optimum Outrigger Locations in Outrigger-braced Structures with Complex Objective Guo-Kang ER, Xing-Hua WANG and Shuang-Wen LAN Diagnosis and Treatment of Cracked Transfer Beams in Tall Buildings Jianzhong YANG, Ni WANG, Guangjing XIONG and Qifei YANG Case Base & Data Mining System of High-rise Structure Intelligent Form Optimization Shihai ZHANG, Shujun LIU, Xiaoyan LIU and Jinping OU	
3:00 pm – 3:30 pm	Tea Break	
3:30 pm – 5:00 pm	Session 5A: Case Studies Chairman: Bernard V. LIM and Francis T.K. AU Invited Paper: The Hong Kong Community College (Hung Hom Bay Campus) A Case Study in Sustainability in Campus Design Bernard V. LIM Design and Construction of an Effective Window Wall System in High Rise Condominiums: A Case Study D.J. CAESAR, R.C. RICHMAN and K.D. PRESSNAIL Use of Glass Reinforced Concrete in the Construction of Bel-Air No. 8, Cyberport, Hong Kong Daniel K.S. KONG, Andrew W.C. KWONG and Hugo H.N. WONG Modular Flat Design for Public Housing Wilfred LAI, Clarence FUNG and Connie YEUNG The Design and Construction of a Fast-track Casino/Hotel Project in Macau David C.S. LEE, H.Y. LEE and Chester W.M. CHAN	
6:00 pm – 8:00 pm	Closing Cocktail Reception Venue: The Garden Lounge, The Hong Kong Club, No. 1 Jackson Road, The Central, Hong Kong Dress Code: Dinner Attire – Jacket & Tie	

Programme on 30th October 2009

Programme on 30 th October 2009	
Monet Room A	Monet Room B
Session 4B: Computer Modelling and Analysis/ Innovative Technology	Session 4C: Concrete and Composite Structures (II)
Chairman: Joseph Y.W. MAK and Ben YOUNG	Chairman: Fei-fei SUN and Francis T.K. AU
General Procedure of Formulating the Governing Equations for Analyzing Outrigger-braced Structures Guo-Kang ER and Vai Pan IU	Time-dependent Analysis of Frames Taking Into Account Creep, Shrinkage and Cable Relaxation Francis T.K. AU and X.T. SI
Universal 3D Connection Solid Elements for Building Analysis S.H. LO, D. WU and K.Y. SZE	Time-dependent Behaviour of Reinforced Concrete Multi- storey Building Frames due to Shrinkage C.H. LIU, Francis T.K. AU and Peter K.K. LEE
Modeling of a SMA-based Self-centering Damper and its Control Performance Analysis Hong-Wei MA and Michael C.H. YAM	Estimation of Shrinkage with Creep Effects on Floor Structures of Multi-storey Reinforced Concrete Buildings under Frame Effects S.C. LAM and C.W. LAW
Sustainability Through the Use of Quality and Green Materials Joseph Y.W. MAK	Predication of Concrete Creep By Multi-Layer Visco-elastic Model
Application of Combined Isolator System in Multi-Body	P.L. NG, A.K.H. KWAN, W.W.S. FUNG and J.S. DU
Structure Lan WU and Aigun LI	Experimental Study on a Novel Self-centering Rocking Device for Tall Buildings Fei-fei SUN and Hu CAO
Research on Buckling-Restrained Braced Frames with Fractional Order Differential Equations Yanhong XU, Aiqun LI and Xingde ZHOU	Ductility Calculation of Reinforced Concrete Shear Walls Lin Jun SI, Guo Qiang LI and Fei Fei SUN
	Reinforced Concrete in Shear: a Modified Rotating-angle Softened-truss Model H.F. WONG and J.S. KUANG
Tea Br	eak
Session 5B: Vibration /Wind Engineering	Session 5C: Foundation
Chairman: H.F. LAM and Joseph Y.W. MAK	Chairman: J.C.M. HO and Ben YOUNG
The Assessment of the Aerodynamic Performance of Building- Integrated Wind Turbines on Tall Building Volker BUTTGEREIT/ Stefano CAMMELLI	Foundation Design for a Tall Tower in a Reclamation Area Frances BADELOW, SungHo KIM, Harry G. POULOS and Ahmad ABDELRAZAQ Comparity Study on Presented Study of the Automatical Properties Study on Presented Study on Prese
Practical Application of CFD for Wind Loading on Tall Buildings Gordon H. CLANNACHAN, James B. P. LIM, Nenad BICANIC, Ian TAYLOR and Tom J. SCANLON	Comparative Study on Dynamic Soil-structure Interaction System with NonLiquefiable and Liquefiable Soil by Using Shaking Table Model Test Peizhen LI, Peng ZHAO, Xilin LU and Shenglong CUI
Application of Static-Dynamic Analytical Method to Vibration- Absorptive Analysis of High-Rise Buildings Rui-Xin HUANG and Ai-Oun LI	Construction of "Large Diameter Hand Dug Caisson" in Downtown of Singapore Sze Tat NG, Akira WADA and Sei WAKABAYASHI
The Application of Wind Tunnel Study and Vibration Control in Building Design	Innovative Foundation Systems for the High-rise Building TOWER185 H. QUICK, S. MEISSNER, J. MICHEAL and
C.L. NG, K.C. WONG, David C.S. LEE and Brian LIM	U. ĀRLAN 3D Elasto-plastic Analysis of Piled-Raft Foundation in Tall Buildings
Wind Loads on Tall Buildings in Hong Kong and Macau - A Comparative Study H.K. NG and Helen P.J. KWAN	Yuwen YANG A New Program for Design and Analysis of Pile Group with Raking Piles
Vibration Measurement and Control of Tall Buildings Floor System for Human Comfort Weixing Shi, Pengfei Wang and Jinwei Huang	G.F. ZHU, K.WANG, P.C. ZHA and C.Z. ZHAN Office Development - Landmark East at 100 How Ming Street, Kwun Tong, Hong Kong Alan YAU and Eddy SUEN
Closing Cocktail Reception Venue: The Garden Lounge, The Hong Kong Club, No. 1 Jackson Road The Central, Hong Kong Dress Code: Dinner Attire – Jacket & Tie	



7th International Conference on Tall Buildings

Closing Cocktail Reception

Date: 30 October 2009 (Friday)
Time: 6:00pm – 8:00pm
Venue: The Garden Lounge
The Hong Kong Club
No. 1 Jackson Road
Central, Hong Kong

Dress Code: Jacket & Tie

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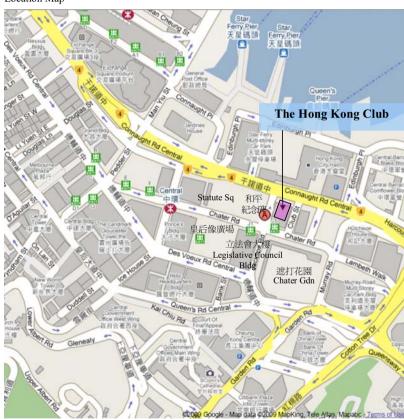
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- Take MTR train to Central Station
- Exit at J3 to Hong Kong Club

Location Map





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