Conference Programme:

The Twelfth East Asia-Pacific Conference on Structural Engineering and Construction

EASEC-12

One World Many Challenges

January 26-28, 2011, Hong Kong SAR, China

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Organizations

Organizer

Department of Building and Construction
City University of Hong Kong

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- Joint Structural Division, Hong Kong Institution of Engineers
- Civil Division, Hong Kong Institution of Engineers
- Building Division, Hong Kong Institution of Engineers
- Hong Kong Institute of Construction Managers (HKICM)
- The Hong Kong Constructional Metal Structures Association (HKCMSA)

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General Information

Date

26 – 28 January, 2011

Venue

Rooms N101 to N112, Hong Kong Convention and Exhibition Centre (HKCEC), 1 Expo Drive, Wan Chai, Hong Kong.

Language

Official language of the conference in English

Early Registration

Registration for the EASEC-12 will be operated at the entrance of the conference venue (N101-N112). To avoid the peak registration in the morning of 26 January 2011, you are strongly recommended to register on 25 January 2011 afternoon (15:00 – 20:30) and enjoy free drinks and refreshment in the **welcoming reception** at Room N107.

Registration

The registration desk is located at the entrance of the conference venue (N101-N112). Opening hours will be:

- 15:00 – 20:30, 25 January (Tuesday)
- 08:00 – 09:00, 26 January (Wednesday)
- 08:30 – 09:00, 27 January (Thursday)
- 08:30 – 09:00, 28 January (Friday)

Secretariat Room

Room N103

Preview Room

Room N102

Presentation Notes

15 minutes including Q&A. Speakers should arrive 10 minutes before the start of the session, and confirm their names and institution information to the session chair.

Internet Access

Free Wi-Fi internet service will be provided at the conference venue.

Welcoming Reception

18:30 – 20:30, 25 January (Tuesday), Room N107 of the conference venue.

To avoid the peak registration in the morning of 26 Jan 2011, you are strongly recommended to register on 25 January 2011 afternoon and **enjoy free drinks and refreshment** in the welcoming reception.

Lunch

Time: 12:20 – 13:50 (1 hour 30 mins)

- 26 January (Wednesday), The Grand Hall (名爵), Shop 301 – 303, 3/F Causeway Centre, 28 Harbour Road, Wan Chai. (Please refer to the map)
- 27 January (Thursday), N201, 2/F of the conference venue.
- 28 January (Friday), The Grand Hall (名爵), Shop 301 – 303, 3/F Causeway Centre, 28 Harbour Road, Wan Chai.

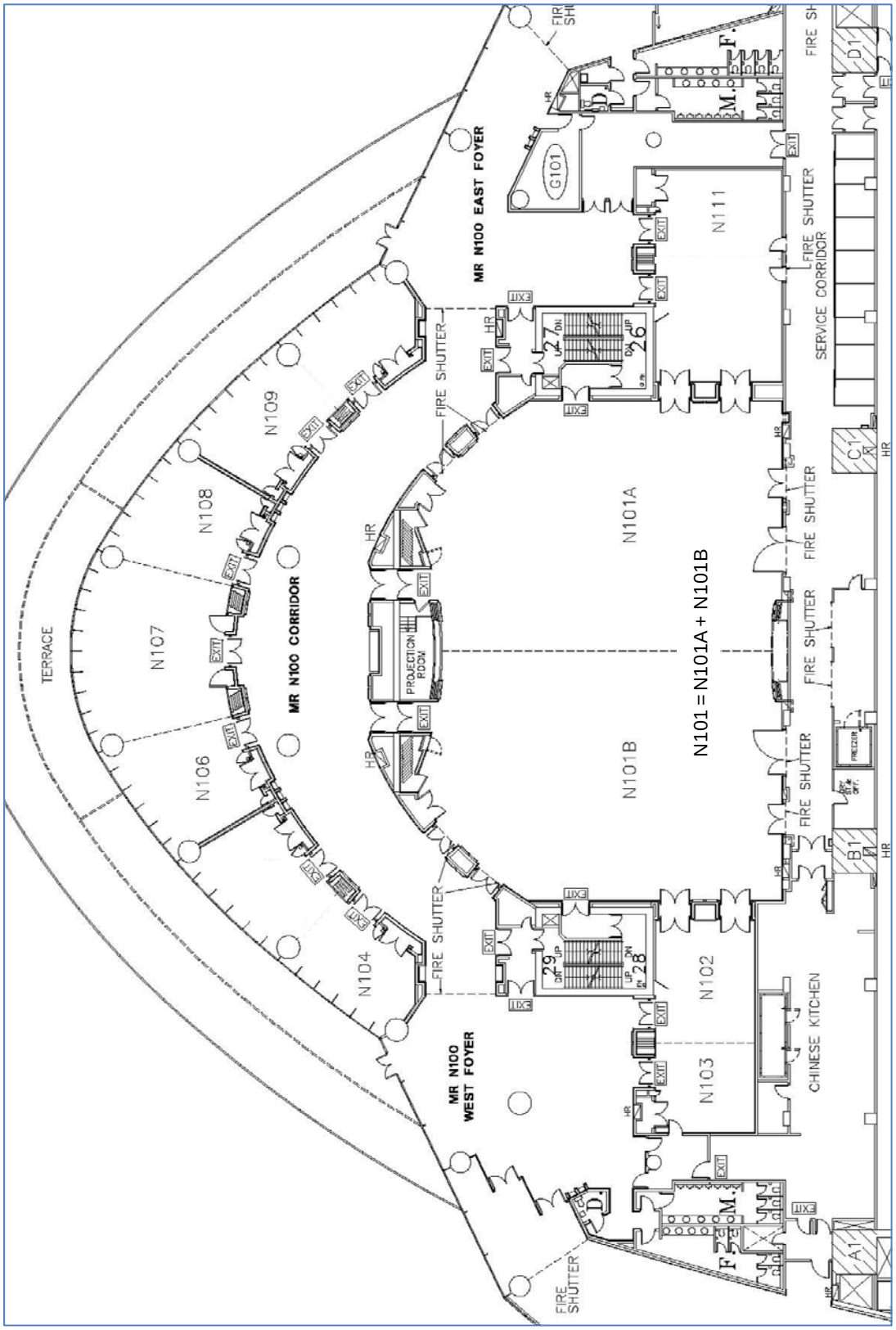
Banquet

- 19:00 – 22:00, 27 January (Thursday), The Grand Hall (名爵)
- Address: Shop 301 – 303, 3/F Causeway Centre, 28 Harbour Road, Wan Chai.
- Please present the banquet voucher (inside the name badge) at the entrance
- Chinese Cuisines

Site Visit

Three site visits will be arrangement on 29 January 2011 morning. Detail information will be provided through the notice board during the conference. Please register at the registration desk on 26 January 2011, if you want to join the site visit (first come first service).

Floor Plan for the Conference Venue

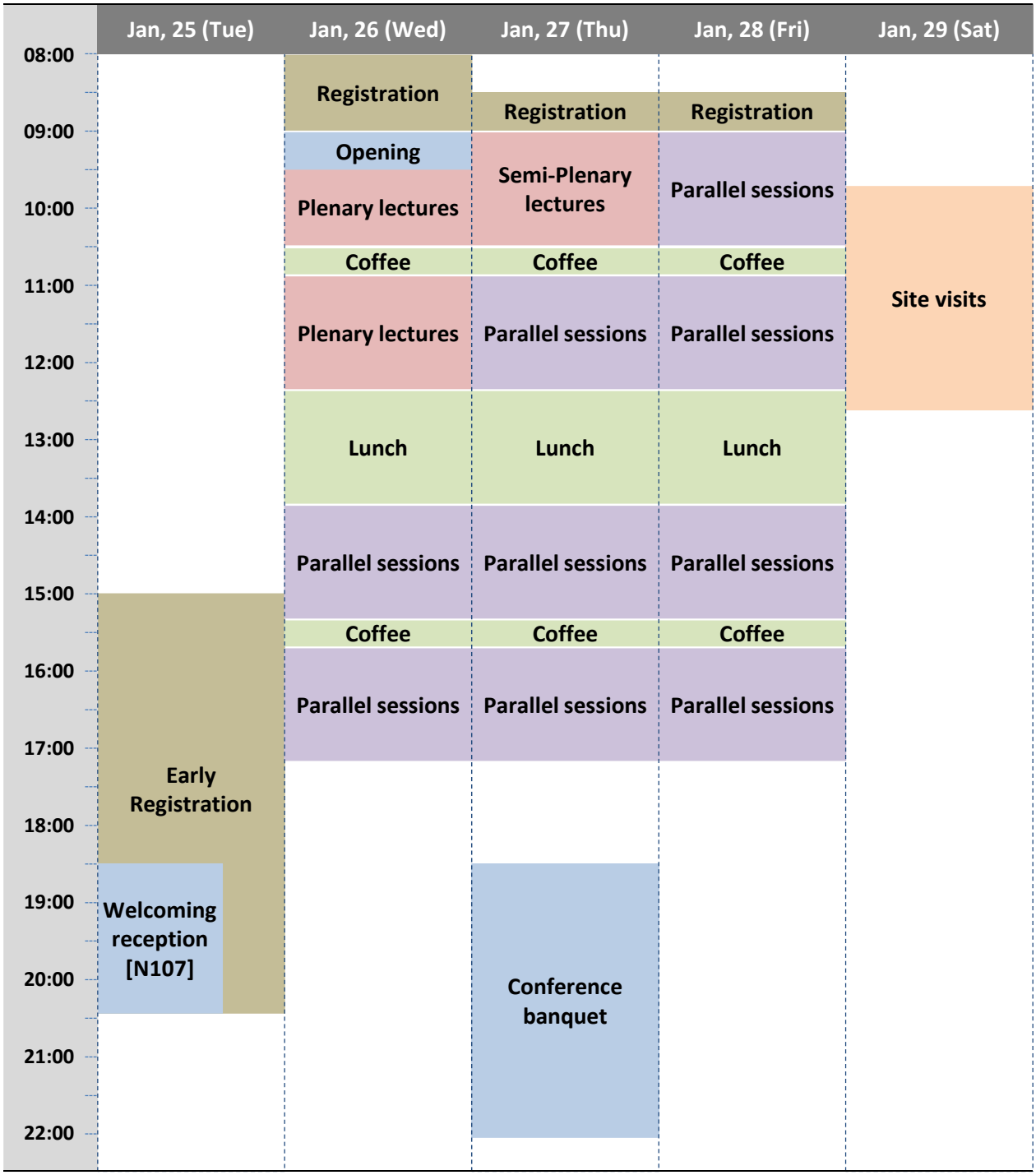


The Walking Path from the Conference Venue to The Grand Hall (名爵)

The Grand Hall (名爵), Shop 301-303, 3/F, Causeway Centre, 28 Harbour Road, Wan Chai.

Conference Programme

Programme at a Glance



To avoid the peak registration in the morning of 26 Jan 2011, you are strongly recommended to register on 25 Jan 2011 afternoon and enjoy free drinks and refreshment in the **welcoming reception** at room N107.

Programme Overview

Time	26 January 2011, Wednesday						
08:00 - 09:00	Registration						
09:00 - 09:30	**Welcoming Speech: Professor Y FUJINO & Professor S KITIPORNCHAI** **Opening Ceremony: Mrs Carrie LAM Cheng Yuet-ngor, GBS, JP** [N101]						
09:30 - 10:00	**Plenary Speech 1 (Chairman: Professor S KITIPORNCHAI):** **Professor David A NETHERCOT, OBE** [N101]						
10:00 - 10:30	**Presentation of Nishino Medal and Prize (Chairman: Professor W KANOK-NUKULCHAI)** **Nishino Medal Lecture** [N101]						
10:30 - 10:50	Coffee						
10:50 - 11:20	**Plenary Speech 2 (Arthur CHIU Memorial Lecture, ACML)** **(Chairman: Professor Edmund CC CHOI):** **Professor YB YANG** [N101]						
11:20 - 11:50	**Plenary Speech 3 (Chairman: Professor LJ LEU):** **Professor Phillip GOULD** [N101]						
11:50 - 12:20	**Plenary Speech 4 (Chairman: Professor LJ LEU):** **Professor James L BECK** [N101]						
12:20 - 13:50	Lunch [The Grand Hall#]						
13:50 - 15:20	**BE1** [N101A]	**CMan1** [N104]	**S15:IP1** [N106]	**EE1** [N107]	**S24:SSD1** [N108]	**ST1** [N109]	**CT1** [N101B]
15:20 - 15:40	Coffee						
15:40 - 17:10	**S21:SC** [N101A]	**SHM** [N104]	**MRR1** [N106]	**EE2** [N107]	**S08:PS** [N108]	**ST2** [N109]	**S02:CC1** [N101B]

Time	27 January 2011, Thursday						
08:30 - 09:00	Registration						
09:00 - 09:30	**Semi-Plenary Speech 1:** **Professor Herbert MANG** [N101A]				**Semi-Plenary Speech 2:** **Professor Mark A BRADFORD** [N101B]		
09:30 - 10:00	**Semi-Plenary Speech 3:** **Professor CM WANG** [N101A]				**Semi-Plenary Speech 4:** **Professor Xilin LU** [N101B]		
10:00 - 10:30	**Semi-Plenary Speech 5:** **Professor Peter BRANDON** [N101A]				**Semi-Plenary Speech 6:** **Dr Atsushi HONDA** [N101B]		
10:30 - 10:50	Coffee						
10:50 - 12:20	**S22:HD1** [N101A]	**CT2** [N101B]	**CMan2** [N104]	**S13:SP1** [N106]	**EE3** [N107]	**SVS1** [N108]	**BE2** [N109]
12:20 - 13:50	Lunch [N201[%]]						
13:50 - 15:20	**S25:ASC** [N101A]	**CT3** [N101B]	**CMan3** [N104]	**S23:VC1** [N106]	**EE4** [N107]	**S24:SSD2** [N108]	**TBWE1** [N109]
15:20 - 15:40	Coffee						
15:40 - 17:10	**S02:CC2** [N101A]	**S03:CSB** [N101B]	**S15:IP2** [N104]	**S14:WB** [N106]	**S24:SSD3** [N107]	**SSI** [N108]	**TBWE2** [N109]
19:00 – 22:00	**Conference Banquet [The Grand Hall[#]]**						

Time	28 January 2011, Friday							
08:30 - 09:00	Registration							
09:00 - 10:30	**S01:CB** [N101A]	**S13:SP2** [N101B]	**CMan4** [N104]	**S12:CWB** [N106]	**CMS1** [N107]	**S17:SM** [N108]	**ADM1** [N109]	**SR1** [N111]
10:30 - 10:50	Coffee							
10:50 - 12:20	**CT4** [N101A]	**MRR2** [N101B]	**BE3** [N104]	**S10:NC** [N106]	**CMS2** [N107]	**S11:RV** [N108]	**ADM2** [N109]	**SR2** [N111]
12:20 - 13:50	Lunch [The Grand Hall[#]]							
13:50 - 15:20	**CT5** [N101A]	**MRR3** [N101B]	**CMe** [N104]	**S23:VC2** [N106]	**CMS3** [N107]	**EE5** [N108]	**SVS2** [N109]	**ISD** [N111]
15:20 - 15:40	Coffee							
15:40 - 17:10	**NSSD** [N101A]	**S13:SP3** [N101B]	**S22:HD2** [N104]	**S09:DCT** [N106]	**CMS4** [N107]	**EE6** [N108]	**SVS3** [N109]	**NADM** [N111]

Programme Notes:

Ir CS Wai, Permanent Secretary for Development (Works) will give a keynote lecture in the banquet. The Grand Hall (名爵), Shop 301-303, 3/F, Causeway Centre, 28 Harbour Road, Wan Chai. [Please refer to the map for the path from the conference venue to the Grand Hall]

% N201, the 2nd floor of the conference venue.

- **Elsevier's Author Workshop** by Noel Blatchford, Publisher, Elsevier Ltd [26 January 2011, 13:50-15:20 (N111)]: This is a presentation to give aspiring authors guidance on what is expected of them when they write a paper.
- Special meetings in **N111** (for committee members only)
  - The **Engineering Structures Editorial Board Meeting**, 27 January 2011, Lunch time (1220–1350).
  - The **IJSSD Editorial Board Meeting**, 27 January 2011, 14:00–15:00.
  - The **EASEC - International Steering Committee (ISC) Meeting**, 27 January 2011, 15:00–17:00.

Session Titles:

General Session		Special Session	
ADM:	Analytical and Design Methods	S01:CB:	Composite Bridge
BE:	Bridge Engineering	S02:CC:	Computing Applications in Civil Engineering
CMan:	Construction Management	S03:CSB:	Cable-Stayed Bridges
CMe:	Computational Mechanics	S08:PS:	Theory and Applications of Plates and Shells
CMS:	Composite Materials/Structures	S09:DCT:	Design and Construction in Tunneling
CT:	Concrete Technology	S10:NC:	Deformation of Nano-Carbon Materials
EE:	Earthquake Engineering	S11:RV:	Random Vibration and Engineering Applications
ISD:	Innovative Structural Design	S12:CWB:	Development of Composite Wind Blades
MRR:	Maintenance, Repairs and Rehabilitation	S13:SP:	Seismic Performance of Lifelines and Industrial Facilities
NADM:	New Analysis and Design Methods	S14:WB:	Structural Performance of Medium-Rise and High-Rise Wood Buildings
NSSD:	Nonlinear Structures and Structural Dynamics	S15:IP:	Inverse Problems and Nondestructive Evaluation
SHM:	Structural Health Monitoring	S17:SM:	Advances in Design and Construction of Structural Masonry
SR:	Safety and Reliability	S21:SC:	Service Behaviour of Concrete Structures
SSI:	Soil Structure Interaction	S22:HD:	Health Diagnosis and Prognosis of Civil Structures: New Development
ST:	Steel Technology	S23:VC:	Vibration Control of Civil Structures: New Development
SVS:	Structural Vibration and Stability	S24:SSD:	Structural Stability and Dynamics
TBWE:	Tall Buildings and Wind Engineering	S25:ASC:	Advances in Steel and Composite Structures

Plenary Session

Plenary Speech 1
26 Jan., 09:30 - 10:00 (N101)
Chairman: Prof. S KITIPORNCHAI

DESIGN OF BUILDING STRUCTURES TO IMPROVE THEIR RESISTANCE TO PROGRESSIVE COLLAPSE
(EASEC12-KEY01, page 2)
Prof. David A NETHERCOT, OBE (*D A Nethercot*)

Plenary Speech 2 (Arthur CHIU Memorial Lecture, ACML)
26 Jan., 11:20 - 11:50 (N101)
Chairman: Prof. Edmund CC CHOI

A NEW APPROACH FOR DERIVING THE INSTABILITY POTENTIAL FOR PLATES BASED ON RIGID BODY AND FORCE EQUILIBRIUM CONSIDERATIONS (EASEC12-KEY02, page 16)
Prof. YB YANG (*Y. B. Yang and S. R. Kuo*)

Plenary Speech 3
26 Jan., 10:50 - 11:20 (N101)
Chairman: Prof. LJ LEU

BEHAVIOR OF ENGINEERED CONSTRUCTED FACILITIES IN THE HAITIAN EARTHQUAKE OF JANUARY 12, 2010
(EASEC12-KEY03, page 25)
Prof. Phillip GOULD (*P. L. Gould, B. J. Goodno, N. C. Gould, and P. Caldwell*)

Plenary Speech 4
26 Jan., 11:50 - 12:20 (N101)
Chairman: Prof. LJ LEU

ROBUST STOCHASTIC PREDICTIONS OF DYNAMIC RESPONSE DURING DESIGN AND MONITORING OF STRUCTURES (EASEC12-KEY04, page 34)
Prof. James L BECK (*J. L. Beck*)

Semi-Plenary Session

Semi-Plenary Speech 1
27 Jan., 09:00 - 09:30 (N101A)
Chairman: Prof. CM TAM

HOLISTIC ANALYSIS OF UNDERGROUND INFRASTRUCTURE SUBJECTED TO FIRE (EASEC12-KEY05, page 46)
Prof. Herbert A MANG (*A. Amouzandeh, H. Moser, T. Ring, M. Zeiml, R. Lackner, and H. A. Mang*)

Semi-Plenary Speech 2
27 Jan., 09:00 - 09:30 (N101B)
Chairman: Prof. Andrew YT LEUNG

SHRINKAGE DEFORMATIONS OF COMPOSITE SLABS WITH OPEN TRAPEZOIDAL SHEETING (EASEC12-KEY06, page 58)
Prof. Mark A BRADFORD (*M. A. Bradford, R. I. Gilbert, R. Zeuner, and G. Brock*)

Semi-Plenary Speech 3
27 Jan., 09:30 - 10:00 (N101A)
Chairman: Prof. CM TAM

VERY LARGE FLOATING STRUCTURES: APPLICATIONS, RESEARCH AND DEVELOPMENT (EASEC12-KEY07, page 69)
Prof. CM WANG (*C.M. Wang and Z.Y. Tay*)

Semi-Plenary Speech 4
27 Jan., 09:30 - 10:00 (N101B)
Chairman: Prof. Andrew YT LEUNG

RESEARCH AND PRACTICE OF RESPONSE CONTROL FOR TALL BUILDINGS IN MAINLAND CHINA (EASEC12-KEY08, page 81)
Prof. Xilin LU (*X. L. Lu and H. J. Jiang*)

Semi-Plenary Speech 5
27 Jan., 10:00 - 10:30 (N101A)
Chairman: Prof. CM TAM

EXTREME MANAGEMENT IN DISASTER RECOVERY (EASEC12-KEY09, page 94)
Prof. Peter BRANDON (*P S Brandon*)

Semi-Plenary Speech 6
27 Jan., 10:00 - 10:30 (N101B)
Chairman: Prof. Andrew YT LEUNG

TOKAIDO SHINKANSEN - ITS PROGRESS AND THE FUTURE DEVELOPMENT - (EASEC12-KEY10, page 107)
Prof. Atsushi HONDA (*A. Honda*)

Parallel Session

Programme updated at 1/23/2011 10:29:36 PM

BE1 : Bridge Engineering I
26 Jan., 13:50 - 15:20 (N101A)
Chairmen: Prof. Changsu SHIM and Dr. Siu Kui AU

APPLICATION OF 3D BRIDGE INFORMATION MODELING TO DESIGN AND CONSTRUCTION OF BRIDGES (EASEC12-152)
CS Shim, NR Yun, and HH Song (Prof. Changsu SHIM)

EFFECT OF SHEAR PANELS ON ELASTO-PLASTIC BEHAVIOR OF BEAM-TO-COLUMN CONNECTIONS OF STEEL RIGID FLAME PIERS (EASEC12-37)
Y Mishima, K Ono, T Miyoshi, and N Nishimura (Mr. Yuji MISHIMA)

CROSS BAY LINK - PUBLIC ENGAGEMENT IN PLANNING URBAN INFRASTRUCTURE (EASEC12-785)
M Hooton, P Chang, M Carter, S.Y. Chan, C.K. Chu, and W.M. Wong (Mr. Martin HOOTON)

MECHANISM OF FATIGUE STRENGTH IMPROVEMENT BY APPLYING PEENING TREATMENT (EASEC12-438)
Masayuki Tai, Chitoshi Miki, and Keigo Suzuki (Mr. Masayuki TAI)

DESIGN AND CONSTRUCTION OF THE BRIDGES ON GUANGZHOU METRO LINE 4 (EASEC12-472)
X.H. He, X.L. Meng, and L. J. Li (Dr. Xuhui HE)

SHEAR DESIGN OF CONCRETE MEMBERS WITHOUT SHEAR REINFORCEMENT - A SOLVED PROBLEM? (EASEC12-485)
G.A Rombach , M. Kohl , and V.H. Nghiep (Mr. Matthias KOHL)

CT1 : Concrete Technology I
26 Jan., 13:50 - 15:20 (N101B)
Chairmen: Prof. Hong HAO and Prof. Nelson LAM

Session Keynote:
NUMERICAL ANALYSIS OF CONCRETE MATERIAL AT HIGH STRAIN RATE UNDER DIRECT TENSION (EASEC12-348)
Yifei Hao, Xihong Zhang, and Hong Hao (Prof. Hong HAO)

EFFECT OF ADMIXED MICELLES ON THE MICROSTRUCTURE ALTERATIONS OF REINFORCED MORTAR, SUBJECTED TO CHLORIDE INDUCED CORROSION (EASEC12-361)
Jie Hu, Dessi Koleva, and Klaas van Breugel (Dr. Jie HU)

EFFECTS OF MATERIAL AND STRUCTURAL SYSTEM ON DRYING SHRINKAGE BEHAVIOR (EASEC12-23)
W. Srisoros (Dr. Worapong SRISOROS)

EFFECT OF PALM OIL FUEL ASH FINENESS ON PACKING EFFECT AND POZZOLANIC REACTION OF BLENDED CEMENT PASTE (EASEC12-309)
Wunchock Kroehong, Theerawat Sinsiri, and Chai Jaturapitakkul (Mr. Wunchok KROEHONG)

EFFECT OF USING WASTEWATER ON THE PROPERTIES OF HIGH STRENGTH CONCRETE (EASEC12-517)
Khalifa Al-Jabri, Abdullah Al-Saidy, Ramzi Taha, and Asaad Al-Kemyani (Dr. Khalifa AL-JABRI)

PROGRESSIVE COLLAPSE ANALYSIS OF AN RC BUILDING WITH EXTERIOR NON-STRUCTURAL WALLS (EASEC12-603)
Meng-Hao Tsai and Tsuei-Chiang Huang (Prof. Meng-Hao TSAI)

CMan1 : Construction Management I
26 Jan., 13:50 - 15:20 (N104)
Chairmen: Dr. Jack CHENG and Dr. KC LAM

A WEB SERVICE FRAMEWORK FOR MEASURING AND MONITORING ENVIRONMENTAL AND CARBON FOOTPRINT IN CONSTRUCTION SUPPLY CHAINS (EASEC12-707)
Jack CP Cheng (Dr. Jack CHENG)

SYSTEMIC MODELLING OF DESIGN ERROR CAUSATION IN SOCIAL INFRASTRUCTURE PROJECTS (EASEC12-487)
Peter Love, R. Lopez, Y.M Goh, and P.R. Davis (Prof. R. LOPEZ)

CRITICAL SUCCESS FACTORS FOR SAFETY PROGRAM IMPLEMENTATION AMONG CONSTRUCTION COMPANIES IN SAUDI ARABIA (EASEC12-508)
S. AL Haadir and K. Panuwatwanich (Dr. Kriengsak PANUWATWANICH)

COST EFFECTIVENESS OF USING LOW COST HOUSING TECHNOLOGIES IN CONSTRUCTION (EASEC12-51)
Vivian W. Y. Tam (Dr. Vivian TAM)

PERFORMANCE-BASED DESIGN APPROACH FOR SEISMIC DESIGN IN CHINA PROJECTS (EASEC12-65)
Edward S C Chan and W L Leung (Mr. Edward S C CHAN)

A COMPARISON BETWEEN NEURO-FUZZY AND LOGISTIC REGRESSION TECHNIQUES FOR PREDICTING POSSIBILITY OF DAMAGES TO ADJACENT BUILDINGS (EASEC12-158)
Pasit Lorterapong and Paijit Pawan (Mr. Paijit PAWAN)

S15:IP1 : Inverse Problems and Nondestructive Evaluation I
26 Jan., 13:50 - 15:20 (N106)
Chairmen: Prof. Guillermo RUS and Prof. Lambros S KATAFYGIOTIS

Session Keynote:
IMPACT DAMAGE CHARACTERIZATION IN COMPOSITES USING SIGNAL-PROCESSING TECHNIQUES (EASEC12-457)
Nicolas Bochud, Ahmed A. Fahim, Ángel M. Gómez, and Guillermo Rus (Mr. Nicolas BOCHUD)

DIFFERENTIAL EFFECTS OF SUPPORT CONDITIONS ON DYNAMIC PARAMETERS (EASEC12-238)
Moatasem Fayyadh, Hashim Abdul Razak, and Omar Khaleel (Mr. Moatasem FAYYADH)

RAILWAY BALLAST DIAGNOSE THROUGH IMPACT HAMMER TEST (EASEC12-5)
H.F. Lam and M.T. Wong (Mr. Man Tat WONG)

STRAIN-BASED ESTIMATION METHOD OF MEMBER FORCES FOR BEAM-COLUMN ELEMENTS USING GENETIC ALGORITHM (EASEC12-295)
Byung Kwan Oh, Se Woon Choi, Hong Min Lee, and Hyo Seon Park (Mr. Byung Kwan OH)

MULTI-POINT DISPLACEMENT RESPONSE MEASUREMENT OF CIVIL INFRASTRUCTURES USING DIGITAL IMAGE PROCESSING (EASEC12-335)
Sung-Wan Kim and Nam-Sik Kim (Mr. Sung-Wan KIM)

A BRIDGE WEIGH-IN-MOTION SYSTEM BASED ON SYSTEM IDENTIFICATION TECHNIQUE (EASEC12-396)
Byeong Hwa Kim, Min Seok Park, and In-Hwan Bae (Prof. Byeong Hwa KIM)

EE1 : Earthquake Engineering I
26 Jan., 13:50 - 15:20 (N107)
Chairmen: Prof. Daisuke KATO and Prof. Andrew YT LEUNG

FAILURE MODE OF COLUMNS OF EXISTING R/C BUILDING DAMAGED DURING THE 2007 NIIGATA CHUETSU-OKI EARTHQUAKE (EASEC12-146)
Daisuke Kato and Tetsuo Nagahashi (Prof. Daisuke KATO)

DAMAGE RATIO OF WATER PIPES DURING THE 2007 NIIGATA-KEN CHUETSU-OKI, JAPAN, EARTHQUAKE (EASEC12-43)
Kota Kimishima, Yoshihisa Maruyama, and Fumio Yamazaki (Mr. Kota KIMISHIMA)

DENSE RIB LATERAL REINFORCEMENT FOR CONFINEMENT OF CONCRETE (EASEC12-102)
Eunsoo Choi, Do Hyung Lee, and Man-Cheol Kim (Prof. Eunsoo CHOI)

PINCHING HYSTERETIC RESPONSE OF YIELDING SHEAR PANEL DEVICE (EASEC12-103)
Li Zhengying, Faris Albermani, Richy W.K. Chan, and S Kitipornchai (Dr. Faris ALBERMANI)

THE USE OF MAGNIFICATION FACTOR FORMULA IN PARTIAL CAPACITY DESIGN METHOD ON FULLY DUCTILE MOMENT RESISTING FRAMES (EASEC12-59)
I Muljati and B Lumantarna (Ms. Ima MULJATI)

REEVALUATION METHOD OF FRAGILITY CURVES OF WOODEN HOUSE BASED ON COLLECTED DAMAGE INFORMATION (EASEC12-61)
Sachie Hoshi, Yoshihisa Maruyama, and Fumio Yamazaki (Ms. Sachie HOSHI)

S24:SSD1 : Structural Stability and Dynamics I
26 Jan., 13:50 - 15:20 (N108)
Chairmen: Dr. WenHui DUAN and Prof. KM LIEW

Session Keynote:
INVESTIGATION ON BUCKLING BEHAVIOR OF SHORT MWCNT (EASEC12-750)
A. H. Korayem, W. H. Duan, and X. L. Zhao (Dr. WenHui DUAN)

EXTREMAL THERMOELASTIC BUCKLING ANALYSIS OF FIXED SLENDER BEAMS (EASEC12-288)
Yong-Lin Pi, Mark Bradford, and Weilian Qu (Prof. Yong-Lin PI)

BUCKLING PROBABILITY OF CONTINUOUS WELDED RAIL TRACKS (EASEC12-172)
Hyun-Ung Bae, Jin-Yu Choi, Seung-Ryong Han, Chin-OK Lee, and Nam-Hyoung Lim (Mr. Hyun-Ung BAE)

LATERAL-TORSIONAL BUCKLING OF DISCRETELY-BRACED I-GIRDERS (EASEC12-344)
CT Nguyen, HS Joo, JH Moon, and HE Lee (Mr. Canh Tuan NGUYEN)

EVALUATION OF FLEXURAL DUCTILITY OF NEGATIVE MOMENT REGION OF I-GIRDER WITH HIGH STRENGTH STEEL (EASEC12-621)
Hak-Eun Lee, Hyunsung Joo, Byung-Ho Choi, and Jiho Moon (Mr. Hyunsung JOO)

FORCED VIBRATION OF ELECTRICALLY ACTUATED FGM MICRO-SWITCHES (EASEC12-774)
Xiaoli Jia, Jie Yang, Sritawat Kitipornchai, and Chee-wah Lim (Miss. Xiaoli JIA)

ST1 : Steel Technology I
26 Jan., 13:50 - 15:20 (N109)
Chairmen: Dr. Wai Meng QUACH and Dr. Faris ALBERMANI

STRESS-STRAIN MODELS FOR LIGHT GAUGE STEELS (EASEC12-217)
Wai-Meng Quach and JunFei Huang (Dr. Wai Meng QUACH)

EXPERIMENTAL STUDY AND EVALUATION METHOD FOR THE BUCKLING STRENGTH OF SCAFFOLD (EASEC12-28)
Hiroki Takahashi, Katsutoshi Ohdo, and Seiji Takanashi (Dr. Hiroki TAKAHASHI)

STRUCTURAL PERFORMANCE OF PRESTRESSED GROUTED PILE-TO-SLEEVE CONNECTIONS (EASEC12-364)
Shouchao Jiang, Zhen Wang, and Xiaoling Zhao (Mr. Zhen WANG)

DEVELOPMENT OF AN EVALUATION METHOD FOR THE COMPRESSIVE-BENDING PLASTIC BUCKLING CAPACITY OF PIPELINE STEEL TUBE BASED ON STRAIN-BASED DESIGN N STRUCTURAL ENGINEERING AND CONSTRUCTION (EASEC12-575)
S. J. Lee, Y. C. Yoon, S. S. Hwang, W. Y. Cho, and G. Zi (Mr. Seung-jung LEE)

PARAMETRIC IDENTIFICATION OF BOUC-WEN MODEL AND ITS APPLICATION IN MILD STEEL DAMPER MODELING (EASEC12-720)
Xudong Zhu and Xilin Lu (Mr. Xudong ZHU)

A STUDY TO REDUCE THE INTER-STORY DRIFTS OF STEEL MOMENT FRAMES SUBJCTED TO SEISMIC LOAD (EASEC12-430)
Se Woon Choi and Hyo Seon Park (Mr. Se Woon CHOI)

S21:SC : Service Behaviour of Concrete Structures
26 Jan., 15:40 - 17:10 (N101A)
Chairmen: Dr. Gianluca RANZI

Session Keynote:
THE SERVICEABILITY LIMIT STATES IN REINFORCED CONCRETE DESIGN (EASEC12-231)
Raymond Ian Gilbert (Prof. Raymond Ian GILBERT)

ON THE INTERACTION OF PARTIAL INTERACTION AND SHRINKAGE IN COMPOSITE STEEL-CONCRETE T-BEAMS (EASEC12-782)
MA Bradford (Prof. Mark BRADFORD)

BEHAVIOUR OF STIFFENED COMPOSITE BEAMS WITH PARTIAL SHEAR INTERACTION ACCOUNTING FOR TIME EFFECTS (EASEC12-224)
Peter Ansourian (Prof. Peter ANSOURIAN)

IN-SERVICE DEFORMATIONS OF REINFORCED CONCRETE COLUMNS IN BIAXIAL BENDING (EASEC12-232)
Raymond Ian Gilbert and Gianluca Ranzi (Prof. Raymond Ian GILBERT)

THREE-DIMENSIONAL FE MODELLING OF SIMPLY-SUPPORTED AND CONTINUOUS COMPOSITE STEEL-CONCRETE BEAMS (EASEC12-594)
Faham Tahmasebinia and Gianluca Ranzi (Dr. Gianluca RANZI)

THREE-DIMENSIONAL BEHAVIOR OF CONCRETE CRACKING DUE TO REBAR CORROSION (EASEC12-552)
Khoa Kim Tran, Hikaru Nakamura, Minoru Kunieda, and Naoshi Ueda (Mr. Kim Khoa TRAN)

VARIOUS FACTORS INFLUECING ON THERMAL BEHAVIORS OF HIGH STRENGTH CONCRETE (HSC) COLUMNS UNDER FIRE (EASEC12-762)
JE Park, YS Shin, and HS Kim (Prof. Hee Sun KIM)

S02:CC1 : Computing Applications in Civil Engineering I
26 Jan., 15:40 - 17:10 (N101B)
Chairmen: Prof. Somsak SWADDIWUDHIPONG and Prof. Nelson LAM

Session Keynote:
COMPUTING APPLICATIONS IN OFFSHORE STRUCTURES AT NUS (EASEC12-2)
S. Swaddiwudhipong, X. Qian, and S. Zhang (Prof. Somsak SWADDIWUDHIPONG)

APPLICATION OF DRUCKER-PRAGER PLASTICITY MODEL FOR STRESS-STRAIN MODELING OF FRP CONFINED CONCRETE COLUMNS (EASEC12-250)
Jiafei Jiang , Yufei Wu , and Xuemei Zhao (Miss. Jiang JIAFEI)

A NEW APPROACH TO THE TEACHING OF STRUCTURAL MECHANICS (EASEC12-312)
N. T. K. Lam (Prof. Nelson LAM)

EFFECTS OF CONCRETE-TO-REINFORCEMENT BOND AND LOADING CONDITIONS ON TENSION STIFFENING (EASEC12-763)
P.L. Ng, J.Y.K. Lam, and Albert K.H. Kwan (Prof. Albert K.H. KWAN)

NUMERICAL EVALUATION OF THE EFFECTS OF EDGE BEAMS ATTACHED TO THE CYLINDRICAL R/C SHELL STRUCTURES (EASEC12-8)
Takashi Hara (Prof. Takashi HARA)

OPTIMIZATION OF COLD-FORMED STEEL PORTAL FRAME TOPOGRAPHY USING REAL-CODED GENETIC ALGORITHMS (EASEC12-502)
Duoc Phan, James Lim, Calvin Ming, TiKu Tanyimboh, Honar Issa, and Wei Sha (Mr. Duoc T PHAN)

DEVELOPMENT OF A SPECIAL INTERFACE ELEMENT BETWEEN BRICK AND PLATE BENDING ELEMENTS (EASEC12-83)
Omid Kohnehpooshi, Jamaloddin Noorzaei, Mohd Saleh Jaafar, and Raizal Saifulnaz Muhamad Rashid (Mr. Omid KOHNEHPOOSHI)

INVESTIGATION OF RBS CONNECTION DUCTILITY IN ECCENTRICALLY BRACED FRAMES (EASEC12-481)
Morteza Naghipour, naghmeh javadi, and A Naghipour (Dr. Morteza NAGHIPOUR)

SHM : Structural Health Monitoring
26 Jan., 15:40 - 17:10 (N104)
Chairmen: Prof. Lambros S KATAFYGIOTIS and Dr. Ching Tai NG

INVESTIGATION OF LATERAL CRUSHING OF SANDWICH TUBES (EASEC12-749)
Zhihua Fan, Jianhu Shen, and Guoxing Lu (Prof. Guoxing LU)

HOW TO INSTALL SENSORS FOR STRUCTURAL MODEL UPDATING? (EASEC12-802)
HF Lam, JH Yang, and Q Hu (Mr. Jiahua YANG)

AN ENERGY-BASED DAMAGE MODEL FOR CONCRETE STRUCTURES UNDER CYCLIC LOADING (EASEC12-120)
Yuchuan Long, Shaoqian Xu, and Xuechao Gao (Dr. Yuchuan LONG)

FOURIER-TRANSFORM-BASED METHOD FOR AUTOMATED STEEL BRIDGE COATING DEFECT RECOGNITION (EASEC12-735)
PoHan Chen, HengKuang Shen, ChiYang Lei, and LuhMaan Chang (Prof. PoHan CHEN)

DYNAMIC CHARACTERISTICS FOR TRADITIONAL WOODEN STRUCTURE IN KOREA BY USING IMPACT HAMMER TEST (EASEC12-437)
S. A. Park, J. S. Choi, and K. W. Min (Miss. Park SUNG AH)

SHEAR STRENGTH PROPERTIES OF NAIL EMBEDDED WOOD ATTACKED BY BROWN ROT FUNGI (EASEC12-600)
Takuro Mori, Yoshiyuki Yanase, and Hiroshi Kurisaki (Dr. Takuro MORI)

PROBABILISTIC DAMAGE CHARACTERISATION IN BEAMS USING GUIDED WAVES (EASEC12-810)
CT Ng, M Veidt, and HF Lam (Dr. Ching Tai NG)

A METHODOLOGY FOR CORRECTING SYNCHRONIZATION ERRORS IN WIRELESS SENSORS FOR STRUCTURAL MODAL IDENTIFICATION (EASEC12-812)
Z.Q. Feng and L.S. Katafygiotis (Mr. Z. Q. FENG)

MRR1 : Maintenance, Repairs and Rehabilitation I
26 Jan., 15:40 - 17:10 (N106)
Chairmen: Dr. Scott T SMITH

EXPERIMENTAL STUDY ON STRENGTHENING EFFECT OF HIGH MODULUS CFRP STRIPS WITH DIFFERENT ADHESIVE LENGTH INSTALLED ONTO THE LOWER FLANGE PLATE OF I SHAPED STEEL GIRDER (EASEC12-63)
Nobuhito Ochi, Masahide Matsumura, and Nobuhiro Hisabe (Dr. Nobuhito OCHI)

BEHAVIORS OF SQUARE THIN-WALLED STEEL TUBED RC COLUMNS UNDER DIRECT AXIAL COMPRESSION ON RC CORE (EASEC12-54)
Sittichai Seangatith and Jaksada Thumrongvut (Dr. Sittichai SEANGATITH)

EFFECT OF HIGH AMPLITUDE LOADING ON FATIGUE LIFE PREDICTION OF BRIDGES (EASEC12-174)
K. Karunananda, M. Ohga, P.B.R. Dissanayake, and S.A.S.C. Siriwardane (Mr. Pallaha Athawudagedara Kamal KARUNANANDA)

IDENTIFICATION OF CORRELATION BETWEEN DEMAND PERFORMANCES TO DAMAGE OF LINING CONCRETE FOR TUNNEL MANAGEMENT (EASEC12-67)
Takashi Sato, Atsushi Sutoh, Hiroaki Nishi, and Hiroshi Arai (Mr. Takashi SATO)

CONFINEMENT EFFECT OF GLASS FABRICS BONDED WITH CEMENTITIOUS AND ORGANIC BINDERS (EASEC12-166)
Smitha Gopinath, Nagesh R. Iyer , Ravindra Gettu , G. S. Palani, and A. Ramachandra Murthy (Mrs. Smitha GOPINATH)

VARIATION OF RAIL TEMPERATURE DUE TO KOREAN CLIMATIC FACTORS (EASEC12-173)
Kyung-Min Yun, Hyun-Ung Bae, Jin-Yu Choi, Chin-Ok Lee, and Nam-Hyoung Lim (Mr. Kyung-Min YUN)

EE2 : Earthquake Engineering II
26 Jan., 15:40 - 17:10 (N107)
Chairmen: Prof. Tomiya TAKATANI and Prof. Andrew YT LEUNG

RELATIONSHIP BETWEEN SEISMIC INDEX AND RESPONSE OF RC STRUCTURE RETROFITTED BY ACM BRACES (EASEC12-235)
Tomiya Takatani (Prof. Tomiya TAKATANI)

USE OF DIGITAL SURFACE MODEL CONSTRUCTED FROM DIGITAL AERIAL IMAGES TO DETECT COLLAPSED BUILDINGS DURING EARTHQUAKE (EASEC12-32)
Yoshihisa Maruyama, Akira Tashiro, and Fumio Yamazaki (Dr. Yoshihisa MARUYAMA)

ASSESSMENT OF EMBANKMENT FACTOR SAFTEY USING TWO COMMERCIALLY AVAILABLE PROGRAMS IN SLOPE STABILITY ANALYSIS (EASEC12-183)
Baydaa Maula and Ling Zhang (Miss. Baydaa MAULA)

ONLINE HYBRID TEST ON BUILDING WITH STUD-TYPE DAMPER MADE OF SLITTED STEEL PLATES STIFFENED BY WOOD PANELS (EASEC12-273)
Mai Ito, Yosuke Murata, Kazuaki Hoki, and Masayoshi Nakashima (Ms. Mai ITO)

EXPERIMENTAL STUDY OF LOAD-CARRYING CRUCIFORM JOINTS CONTAINING INCOMPLETE PENETRATION AND STRENGTH UNDER-MATCHING IN LOW AND HIGH CYCLE FATIGUE REGIONS (EASEC12-327)
Kawin Saiprasertkit, Takeshi Hannji, and Chitoshi Miki (Mr. Kawin SAIPRASERTKIT)

CYCLIC TEST OF A COUPLED STEEL PLATE SHEAR WALL SUBSTRUCTURE (EASEC12-521)
Chao-Hsien Li, Keh-Chyuan Tsai, Jing-Tang Chang, and Chih-Han Lin (Mr. Chao-Hsien LI)

EVALUATION OF SYSTEM RELIABILITY OF LIFELINE NETWORKS IN VIEWS OF A SEISMIC HAZARD (EASEC12-107)
G. Shoji and M. Tabata (Mr. Masafumi TABATA)

S08:PS : Theory and Applications of Plates and Shells
26 Jan., 15:40 - 17:10 (N108)
Chairmen: Dr. CW LIM and Prof. Ken S. SIVAKUMARAN

Session Keynote:
STRENGTH OF PLATES OF RECTANGULAR INDUSTRIAL DUCTS (EASEC12-322)
T. Thanga, B. Halabiah, and K.S.Sivakumaran (Prof. Ken S. SIVAKUMARAN)

POST-BUCKLING SHEAR STRENGTH OF THIN STEEL PLATES (EASEC12-696)
T. Chen and K.S.Sivakumaran (Prof. Ken S. SIVAKUMARAN)

PARAMETRIC INSTABILITY AND SNAP-THROUGH OF PARTIALLY FLUID-FILLED CYLINDRICAL SHELLS (EASEC12-115)
Frederico M. A. Silva, Paulo B. Gonçalves , and Zenón J. G. N. del Prado (Prof. Paulo GONÇALVES)

NUMERICAL SIMULATION OF THE BUCKLING OF THE STEEL PIPES WITH HELICOIDALLY WELD UNDER COMBINED ACTIONS (EASEC12-117)
H. A. Sánchez and C Cortés Salas (Dr. Hector SANCHEZ SANCHEZ)

BISTABLE EQUILIBRIUM OF LAMINATED CYLINDRICAL SHELLS (EASEC12-255)
XQ He (Dr. Xiaoqiao HE)

A PHANTOM-NODE METHOD FOR PREDICTING RESIDUAL STRENGTH IN SHELL STRUCTURES WITH A SINGLE CRACK BASED ON A CRACK TIP OPENING ANGLE CRITERION (EASEC12-416)
Thanh Chau-Dinh and Goangseup Zi (Mr. Thanh CHAU DINH)

NATURAL FREQUENCIES ANALYSIS OF MODERATELY-THICK AND THICK TOROIDAL SHELLS (EASEC12-597)
Xiaohong Wang and David Redekop (Dr. Xiaohong WANG)

DYNAMIC RESPONSE OF PRESSURIZED SUBMARINE PIPELINES SUBJECTED TO TRANSVERSE IMPACT LOADS (EASEC12-304)
Hamid Arabzadeh and Mostafa Zeinoddini (Mr. Hamid ARABZADEH)

ST2 : Steel Technology II
26 Jan., 15:40 - 17:10 (N109)
Chairmen: Prof. Eiki YAMAGUCHI and Dr. Faris ALBERMANI

Session Keynote:
POST-MEMBER-FAILURE ANALYSIS METHOD OF STEEL TRUSS BRIDGE (EASEC12-672)
Eiki Yamaguchi, Ryo Okamoto, and Keita Yamada (Prof. Eiki YAMAGUCHI)

CHARACTERISTIC COMPRESSIVE STRENGTH OF ENCASED-CONCRETE DEEP CORRUGATED STEEL PLATE MEMBER (EASEC12-732)
Jongsung Sim, Cheolwoo Park, Taesung Kang, Hyunjoong Kim, HyeonGi Lee, and HyoungHo Lee (Mr. Hyunjoong KIM)

THE EXPERIMENTAL COMPARISON OF THE UNIAXIAL AND BIAXIAL FLEXURAL TENSILE STRENGTHS ACCORDING TO THE SIZE OF SPECIMENS (EASEC12-596)
Jihwan Kim, yeonmin Kwak, and Goangseup Zi (Mr. Jihwan KIM)

A STUDY ON STRUCTURAL PERFORMANCE OF END-REINFORCED STEELBEAMS SYSTEM (EASEC12-755)
Jaeyong Ryoo, Heungsuk Chae, Kyeongsu Chung, and Sungmo Choi (Mr. Jaeyong RYOO)

STIFFNESS AND STRENGTH OF PERFORATED STEEL PLATE SHEAR WALL (EASEC12-738)
Ricky Chan, Faris Albermani, and S. Kitipornchai (Dr. Faris ALBERMANI)

S22:HD1 : Health Diagnosis and Prognosis of Civil Structures: New Development I
27 Jan., 10:50 - 12:20 (N101A)
Chairmen: Dr. Yong XIA and Prof. Hui LI

Session Keynote:
STRUCTURAL HEALTH MONITORING: FROM SENSING TECHNOLOGY STEPPING TO HEALTH DIAGNOSIS (EASEC12-557)
Hui Li and Jinping Ou (Prof. Hui LI)

SUSPENSION BRIDGE VIBRATION MEASUREMENT USING MULTIHOP WIRELESS SENSOR NETWORKS (EASEC12-631)
Tomonori Nagayama, Mitsushi Ushita, and Yozo Fujino (Dr. Tomonori NAGAYAMA)

A BRIDGE DAMAGE DETECTION APPROACH USING TRAIN-BRIDGE INTERACTION ANALYSIS AND GA OPTIMIZATION (EASEC12-724)
Xingwen He, Mitsuo Kawatani, Toshiro Hayashikawa, Hitoshi Furuta, and Takashi Matsumoto (Dr. Xingwen HE)

VIBRATION CHARACTERISTICS OF AN OVERPASS BRIDGE DURING FULL-SCALE DESTRUCTIVE TESTING (EASEC12-746)
D.M Siringoringo, Y Fujino, T Nagayama, and H Wenzel (Dr. Dionysius SIRINGORINGO)

LONG-TERM MONITORING AND SAFETY EVALUATION OF A METRO STATION DURING DEEP EXCAVATION (EASEC12-333)
Long Ran, Xiao-wei Ye, and Hong-hu Zhu (Mr. Long RAN)

CT2 : Concrete Technology II
27 Jan., 10:50 - 12:20 (N101B)
Chairmen: Dr. Y Tommy LO

FLEXURAL STRENGTH OF ULTRA HIGH STRENGTH CONCRETE BEAMS REINFORCED WITH STEEL FIBERS (EASEC12-321)
I.H. Yang, C. Joh, and B.S. Kim (Prof. In-Hwan YANG)

FRESH STATE BEHAVIOR OF SELF COMPACTING CONCRETE CONTAINING WASTE MATERIAL FIBRES (EASEC12-62)
Sholihin As'ad, Purnawan Gunawan, and M. Syarif Alaydrus (Dr. Sholihin ASAD)

THE EFFECT OF COARSE AGGREGATE ON FRESH AND HARDENED PROPERTIES OF SELF-COMPACTING CONCRETE (SCC) (EASEC12-260)
Omar Khaleel, Shakir Al-Mishhadani, and Hashim Abdul Razak (Mr. Omar KHALEEL)

CONTRIBUTION OF HYBRID FIBERS ON THE PROPERTIES OF HIGH STRENGTH CONCRETE HAVING HIGH WORKABILITY (EASEC12-769)
Eethar Thanon Dawood and Mahyuddin Ramli (Mr. Eethar THANON DAWOOD)

EXPERIMENTAL STUDY ON THE PERFORMANCE OF RC CONTINUOUS MEMBERS IN BENDING AFTER EXPOSURE TO FIRE (EASEC12-81)
Yu Jiangtao, Lu Zhoudao, and Xiang Kai (Mr. Jiang Tao YU)

MICROSTRUCTURE ANALYSIS OF HEATED PORTLAND CEMENT PASTE (EASEC12-208)
Qi Zhang and Guang Ye (Mr. Qi ZHANG)

A COVERED DOUBLE DECKER PEDESTRIAN BRIDGE IN PARMA (EASEC12-617)
Pier Giorgio Malerba, Paolo Galli, and Marco Di Domizio (Prof. Pier Giorgio MALERBA)

CMan2 : Construction Management II
27 Jan., 10:50 - 12:20 (N104)
Chairmen: Prof. CM TAM and Dr. KS LAW

Session Keynote:
WHAT GOES UP, SHOULD'NT COME DOWN: LEARNING FROM CONSTRUCTION AND ENGINEERING FAILURES (EASEC12-488)
P.E.D. Love, R. Lopez, Y.M Goh, and C.M. Tam (Prof. R. LOPEZ)

APPLICATIONS OF CONSTRAINT SATISFACTION PROGRAMMING FOR CONSTRUCTION PLANNING (EASEC12-159)
P. Lorterapong and M. Ussavadilokrit (Dr. Pasit LORTERAPONG)

ALLOCATING SCARCE RESOURCES IN MULTI-PROJECT ENVIRONMENTS USING CONSTRAINT SATISFACTION PROGRAMMING (EASEC12-404)
P. Lorterapong and N. Rattanachai (Mr. Nattanon RATTANACHAI)

PERFORMANCE BASED CONTRACT APPLICATION OPPORTUNITY AND CHALLENGES IN INDONESIAN NATIONAL ROADS MANAGEMENT (EASEC12-504)
RZ Tamin, AZ Tamin, and PF Marzuki (Prof. Rizal Z. TAMIN)

THE ROLE AND FUNCTION OF MANDOR IN CONSTRUCTION PROJECT ORGANIZATION IN INDONESIA (EASEC12-560)
B. W. Soemardi, I. Soenaryo, and E. Wahyudi (Dr. Biemo SOEMARDI)

FACTORS RELATING TO LABOR PRODUCTIVITY AFFECTING THE PROJECT SCHEDULE PERFORMANCE IN INDONESIA (EASEC12-618)
A. Soekiman, K. S. Pribadi, B.W. Soemardi, and R.D. Wirahadikusumah (Mr. Anton SOEKIMAN)

EXPLORING DELAYS IN VICTORIA-BASED AUSTRALIAN PIPELINE PROJECTS (EASEC12-811)
A Orangi, E. Palaneeswaran, and J Wilson (Dr. Palaneeswaran EKAMBARAM)

S13:SP1 : Seismic Performance of Lifelines and Industrial Facilities I
27 Jan., 10:50 - 12:20 (N106)
Chairmen: Dr. Mehran Seyed RAZZAGHI and Dr. Francis TK AU

RISK ASSESSMENT AND MAINTENANCE OF EXISTING TRUNK LINES WITH A NEW SUBSIDIARY SYSTEM UNDER SEISMIC AND DETERIORATING ENVIRONMENTS (EASEC12-331)
T. Imai and T. Koike (Prof. Takeshi KOIKE)

ANALYTICAL STUDY ON SEISMIC PERFORMANCE OF HOLLOW SPIRAL STEEL PIPES UNDER CYCLIC LOADING (EASEC12-126)
Shohei Ohnishi, Kiyoshi Ono, and Mitsuyoshi Akiyama (Mr. Shohei OHNISHI)

EVALUATION METHODS BASED ON STRESS RESULTANT FOR SEISMIC PERFORMANCE OF STEEL MEMBERS WITH FIBER MODEL (EASEC12-127)
H Taniue, K Ono, and M Tokunaga (Mr. Hiroaki TANIUE)

SEISMIC PERFORMANCE OF CONTINUOUS BRIDGES USING CABLE-SLIDING FRICTION ASEISMIC BEARING (EASEC12-169)
Zhenghua Wei, Wancheng Yuan, Pak-Chiu Cheung , Xinjian Cao, and Zhaojun Rong (Mr. Zhenghua WEI)

LIFELINES PERFORMANCE OF THE MW 8.8 OFF SHORE BIOBÍO, CHILE EARTHQUAKE (EASEC12-282)
Alex K. Tang (Mr. Alex K TANG)

SHAKE TABLE TEST OF CABLE-STAYED BRIDGE SUBJECTED TO NON-UNIFORM EXCITATION (EASEC12-307)
Cheng-Yu Yang, Moe M.S., and Cheung (Dr. Cheng-Yu YANG)

EE3 : Earthquake Engineering III
27 Jan., 10:50 - 12:20 (N107)
Chairmen: Prof. Huanjun JIANG and Prof. PoHan CHEN

SEISMIC DAMAGE ASSESSMENT AND PERFORMANCE LEVELS OF REINFORCED CONCRETE MEMBERS (EASEC12-357)
HJ Jiang, LZ Chen, and Q Chen (Prof. Huanjun JIANG)

RIGID STRUCTURE RESPONSE ANALYSIS TO SEISMIC AND BLAST INDUCED GROUND MOTIONS (EASEC12-347)
Hong Hao and Yun Zhou (Prof. Hong HAO)

LOW-CYCLE FATIGUE TESTS OF A TYPE OF BUCKLING RESTRAINED BRACES (EASEC12-499)
Tsutomu Usami, Chunlin Wang, and Jyunki Funayama (Prof. Tsutomu USAMI)

DEVELOPMENT OF PISA4SB FOR APPLICATIONS IN THE TAIWAN SCHOOL BUILDING SEISMIC RETROFIT PROGRAM (EASEC12-726)
Ming-Chieh Chuang, Edward Liao, Vicki Pei Lai, Yi-Jer Yu, and Keh-Chyuan Tsai (Mr. Ming-Chieh CHUANG)

STUDY ON ALGORITHMS FOR SEMI-ACTIVE CONTROL OF ISOLATION SYSTEM WITH VARIABLE FRICTION (EASEC12-794)
LL Chung, CY Yang, HM Chen, and LY Lu (Dr. C. Y. YANG)

SEISMIC RISK ASSESSMENT OF REINFORCED CONCRETE FRAME WITH CONSIDERATION OF ALEATORY AND EPISTEMIC UNCERTAINTY (EASEC12-611)
Matjaž Dolšek (Prof. Matjaz DOLSEK)

SVS1 : Structural Vibration and Stability I
27 Jan., 10:50 - 12:20 (N108)
Chairmen: Dr. CW LIM and Dr. Kevin WONG

RESPONSE OF DAMPED ORTHOTROPIC STIFFENED PLATES SUBJECTED TO A STEPPED TRIANGULAR BLAST LOADING (EASEC12-22)
SW Alisjahbana and W Wangsadinata (Prof. Sofia W ALISJAHBANA)

APPLICATION OF NUMERICAL MODELING METHOD ON THE DYNAMIC RESPONSE OF LONG SPAN STRUCTURE TO VEHICULAR LOAD (EASEC12-767)
Dr. Zheng Jian Jun and Chin Sai Ping (Dr. Jian Jun ZHENG)

STRUCTURAL DESIGN IN THE POST-EFFECTIVE LENGTH ERA (EASEC12-654)
S.L. Chan, Y.P. Liu, and S.W. Liu (Prof. Siu-lai CHAN)

SEISMIC RESPONSE CONTROL OF ADJACENT BUILDING BY USING HYBRID CONTROL ALGORITHM OF MR DAMPER (EASEC12-234)
Gee-Cheol Kim and Joo-Won Kang (Prof. Gee-Cheol KIM)

REDUCTION AND RECOVERING METHOD FOR MDOF PLANE STRESS PROBLEMS TO AN SDOF SYSTEM (EASEC12-277)
Naomichi Kobayashi, Buntara S. Gan, Atsushi Maruyama, and Yasuhiro Anzai (Mr. Naomichi KOBAYASHI)

STRAIN REDUCTION AND RECOVERING METHOD (EASEC12-341)
Kazutaka Sugiyama, Mitsuharu Kurata, Buntara S. Gan, and Eiji Nouchi (Mr. Kazutaka SUGIYAMA)

BE2 : Bridge Engineering II
27 Jan., 10:50 - 12:20 (N109)
Chairmen: Dr. Siu Kui AU

IFC EXTENSION FOR ROAD STRUCTURES AND DIGITAL MODELING (EASEC12-570)
S.-H. Lee and B.-G. Kim (Prof. Sang-Ho LEE)

PREDICTION OF ADHESION BEHAVIOR OF SEA-SALT PARTICLES ON BRIDGE GIRDERS (EASEC12-658)
M. Obata, Y. Watanabe, G.T. Li1, and Y. Goto (Prof. Makoto OBATA)

A NEW LANDMARK ARCH BRIDGE IN MILAN (EASEC12-616)
Pier Giorgio Malerba, Paolo Galli, and Marco Di Domizio (Prof. Pier Giorgio MALERBA)

STUDY ON APPLICATION OF FIELD SIGNATURE METHOD (FSM) TO FATIGUE CRACK MONITORING ON STEEL BRIDGES (EASEC12-752)
Yoriko Kawakam, Hidesada Kanaji, and Kentaro Oku (Mr. Yoriko KAWAKAMI)

DYNAMIC ANALYSIS OF SUSPENSION BRIDGES AND FULL SCALE TESTING (EASEC12-776)
Kubilay Kaptan, Semih Tezcan, Serap Altin, and Sheldon Cherry (Dr. Semih S. TEZCAN)

TRAFFIC-INDUCED RESPONSE PREDICTION OF HIGHWAY BRIDGES (EASEC12-800)
Di Su, Jitboon Laomenit, and Yozo Fujino (Dr. Di SU)

EVALUATION OF TSUNAMI FLUID FORCE ACTING ON A BRIDGE DECK SUBJECTED TO BREAKER BORES (EASEC12-395)
G. Shoji, Y. Hiraki, K. Fujima,and Y. Shigihara (Mr. Yu HIRAKI)

S25:ASC : Advances in Steel and Composite Structures
27 Jan., 13:50 - 15:20 (N101A)
Chairmen: Prof. KF CHUNG and Mr. WZ LIU

DESIGN AND CONSTRUCTION OF SENTOSA INTEGRATED RESORT DEVELOPMENTS IN SINGAPORE WITH MEGA STEEL TRUSSES USING CHINESE STRUCTURAL STEELS (EASEC12-806)
HY Lee and ZX Hou (Mr. Z. X. HOU)

AN INVESTIGATION INTO SHEAR RESISTANCES OF HEADED SHEAR STUDS IN SOLID CONCRETE SLABS WITH LOCAL AGGREGATES IN HONG KONG (EASEC12-813)
MH Shen and KF Chung (Prof. KF CHUNG)

FINITE ELEMENT STUDY OF CRACKED STEEL CIRCULAR TUBE REPARIED BY FRP PATCHING (EASEC12-725)
CC Lam, JJ Cheng, and CH Yam (Prof. Angus, C. C. LAM)

ADVANCED FINITE ELEMENT MODELLING OF COMPOSITE BEAMS WITH HIGH STRENGTH MATERIALS AND DEFORMABLE SHEAR CONNECTORS (EASEC12-807)
KF Chung and CK Chan (Dr. C. K. CHAN)

STRUCTURAL DESIGN OF THE NEW FERRY TERMINAL IN TAIPA, MACAU SAR (EASEC12-814)
(Mr. Jose SANTOS)

STRUCTURAL FIRE ENGINEERING STUDY ON UNPROTECTED LONG SPAN STEEL TRUSSES (EASEC12-808)
HC Ho, KF Chung, and Y Wong (Dr. H. C. HO)

CT3 : Concrete Technology III
27 Jan., 13:50 - 15:20 (N101B)
Chairmen: Dr. Scott T SMITH

STRUCTURAL CHARACTERISTICS OF WELDED BUILT-UP SQUARE CONCRETE FILLED TUBULAR STUB COLUMNS ASSOCIATED WITH CONCRETE STRENGTH (EASEC12-757)
Seong-Hui, Lee, Sun-Hee, Kim, Jung-Seok, Bang, Yong-An Won, and Sung-Mo, Choi (Dr. SH LEE)

EFFECT OF FLY ASH ON THE DURABILITY PROPERTIES OF HIGH STRENGTH CONCRETE (EASEC12-289)
P Nath and P Sarker (Mr. Pradip NATH)

CELLULAR LIGHTWEIGHT CONCRETE CONTAINING POZZOLAN MATERIALS (EASEC12-313)
Khamphee Jitchaiyaphum, Theerawat Sinsiri, and Prinya Chindaprasirt (Mr. Khamphee JITCHAIYAPHUM)

NUMERICAL SIMULATION OF FRACTURE PATTERN AND BOND PERFORMANCE OF ANCHORAGE IN REINFORCED CONCRETE (EASEC12-328)
Yu Inoue and Kohei Nagai (Mr. Yu INOUE)

A BONDING DAMAGE DETECTION METHOD WITH FORCE-BASED BEAM ELEMENT (EASEC12-748)
K. Liu, S.S. Law, and X.Q. Zhu (Miss. Kun LIU)

PUNCHING SHEAR TESTS ON RC SLABS WITH DIFFERENT INITIAL CRACK PATTERNS (EASEC12-140)
LC Hoang (Prof. Linh Cao HOANG)

CMan3 : Construction Management III
27 Jan., 13:50 - 15:20 (N104)
Chairmen: Dr. Zhao-Xin FANG and Dr. Jack CHENG

INTEGRATED TEAM DESIGN PROCESS - SUCCESSFUL STORIES OF HONG KONG MTR CORPORATION PROJECTS (EASEC12-66)
Chin Sai Ping , Clement Ngai Yum Keung , and M Ramanathan (Mr. Sai Ping CHIN)

'PLUGGING THE GAPS' BETWEEN OPTIMUM BIAS AND STRATEGIC MISREPRESENTATION AND INFRASTRUCTURE COST OVERRUNS (EASEC12-486)
P.E.D. Love (Prof. Peter LOVE)

INTERNATIONAL SURVEY ON PREVENTION SYSTEM OF LABOR ACCIDENTS AT CONSTRUCTION SITE (EASEC12-41)
Y. Hino, K. Ohdo, S. Takanashi, and H. Takahashi (Mr. Yasumichi HINO)

PPP DELIVERY MODEL FOR SMALL STATES (EASEC12-528)
S Sreenath, Robert L K Tiong, and H K Yong (Mr. Sreenivasan SREENATH)

PROGRESS AND CHALLENGES OF FORENSIC STRUCTURAL ENGINEERING - FOCUS ON MAINLAND CHINA (EASEC12-403)
ZX Fang (Dr. Zhao-Xin FANG)

P25 - SCORING METHOD FOR THE COLLAPSE VULNERABILITY ASSESSMENT OF R/C BUILDINGS (EASEC12-711)
F. G. Gulay, K. Kaptan, E.I. Bal, and S. S. Tezcan (Dr. Semih S. TEZCAN)

S23:VC1 : Vibration Control of Civil Structures: New Development I
27 Jan., 13:50 - 15:20 (N106)
Chairmen: Dr. Songye ZHU and Prof Ben YOUNG

Session Keynote:
A NEW DECENTRALIZED CONTROL APPROACH FOR LARGE-SCALE BUILDING STRUCTURES (EASEC12-538)
Y. Lei and D.T.Wu (Prof. Ying LEI)

REDUCING ACCELERATION RESPONSE OF A SDOF STRUCTURE WITH A BI-DIRECTIONAL LIQUID DAMPER (EASEC12-434)
HR Lee and KW Min (Miss. Hye-Ri LEE)

AN ANALYTICAL APPROACH FOR DESIGN OF A STRUCTURE EQUIPPED WITH FRICTION DAMPERS (EASEC12-436)
Ji-Young Seong and Kyung-Won Min (Miss. Ji-young SEONG)

USING SEMI-ACTIVE FRICTION DAMPERS FOR DAMAGE DETECTION OF A BUILDING COMPLEX (EASEC12-494)
Q Huang, YL Xu, JC Li, HJ Liu, and ZQ Su (Mr. Qin HUANG)

DESIGN WIND LOADS ON REINFORCED CONCRETE CHIMNEY - AN EXPERIMENTAL CASE STUDY (EASEC12-510)
Alok David John, Ajay Gairola, Eshan Ganju, and Anant Gupta (Mr. Eshan GANJU)

MODELING OF LINEAR ELECTROMAGNETIC DAMPER FOR VIBRATION CONTROL AND ENERGY HARVESTING (EASEC12-435)
WA. Shen, S Zhu, and YL Xu (Mr. Wen-ai SHEN)

EE4 : Earthquake Engineering IV
27 Jan., 13:50 - 15:20 (N107)
Chairmen: Prof. George GEORGOUSSIS and Dr. Ray KL SU

THE USE OF MODAL RIGIDITY CENTRE FOR ASSESSING CODE PROVISIONS IN ASYMMETRIC BUILDINGS (EASEC12-324)
George K. Georgoussis (Prof. George GEORGOUSSIS)

PLASTIC HINGE LENGTH IN REINFORCED CONCRETE FLEXURAL MEMBERS (EASEC12-293)
Xuemei Zhao, Yufei Wu, AYT Leung, and Heung-fai Lam (Ms. Xuemei ZHAO)

SEISMIC RESPONSE ANALYSES OF THE FOLDED CANTILEVER SHEAR STRUCTURE: ANALYTICAL AND EXPERIMENTAL STUDIES (EASEC12-667)
ES Kaya, T Katayama, and T Yamao (Mr. Ercan Serif KAYA)

SEISMIC BEHAVIOR OF RC COLUMNS WITH INTERLOCKING SPIRALS UNDER COMBINED LOADINGS INCLUDING TORSION (EASEC12-684)
Qian. Li and A. Belarbi (Prof. Abdeldjelil BELARBI)

REPRODUCING REAL EARTHQUAKES BY SHAKING TABLES WITH LIMITED STROKE (EASEC12-701)
B Blostotsky, Y Ribakov, and G Agranovich (Prof. Yuri RIBAKOV)

CYCLIC SHEAR RESISTANCE OF EXPANDED BEAM-COLUMN JOINT (EASEC12-761)
A Pimanmas and P Chaimahawan (Dr. Amorn PIMANMAS)

S24:SSD2 : Structural Stability and Dynamics II
27 Jan., 13:50 - 15:20 (N108)
Chairmen: Dr. WenHui DUAN and Prof. KM LIEW

Session Keynote:
EFFECT OF IMPACT TENSILE LOAD ON STRENGTH OF CFRP BONDED STEEL PLATE JOINTS (EASEC12-796)
HA Al-Zubaidy, XL Zhao, and R Al-Mahaidi (Prof. Xiao-Ling ZHAO)

A STUDY OF CANTILEVER BEAM VIBRATION TESTING SYSTEM BASED ON ZIGBEE TECHNOLOGY (EASEC12-673)
Guangxiang Yang, Wenhui Duan, and Hua Liang (Dr. WenHui DUAN)

A MOLECULAR DYNAMICS INVETIGATION OF THE TORSIONAL RESPONSES OF DEFECTIVE SINGLE-WALLED CARBON NANOTUBES (EASEC12-795)
YY Zhang, CM Wang , and Y Xiang (Dr. Yingyan ZHANG)

FIELD MEASUREMENT AND MODAL IDENTIFICATION OF A COUPLED FLOOR SLAB SYSTEM (EASEC12-798)
SK Au, YC Ni, FL Zhang, and HF Lam (Miss. Yanchun NI)

REDUCED ORDER MODELING FOR DYNAMIC RESPONSE OF BOLTED JOINTS SUBJECTED TO MULTI-HARMONIC LOADING (EASEC12-130)
Irfan Ullah and Muhammad Yasin (Dr. Irfan ULLAH)

NONLINEAR DYNAMIC ANALYSIS OF MARINE RISERS UNDER RANDOM LOADS (EASEC12-708)
Rizwan .A. Khan , Arshdeep Kaur, S. P. Singh, and Suhail Ahmad (Dr. Rizwan Ahmad KHAN)

TBWE1 : Tall Buildings and Wind Engineering I
27 Jan., 13:50 - 15:20 (N109)
Chairmen: Prof. Edmund CC CHOI

DIAGRID STRUCTURES FOR COMPLEX-SHAPED TALL BUILDINGS (EASEC12-384)
Kyoung Sun Moon (Prof. Kyoung Sun MOON)

STRUCTURAL DESIGN AND CONSTRUCTION OF DOUBLE SKIN FACADES AS DAMPING DEVICES FOR TALL BUILDINGS (EASEC12-548)
Kyoung Sun Moon (Prof. Kyoung Sun MOON)

IDENTIFICATION OF REASONS FOR LARGE INELASTIC SEISMIC DEMANDS IN HIGH RISE RC CORE WALL BUILDINGS (EASEC12-378)
P. Warnitchai and Munir A. (Dr. Pennung WARNITCHAI)

PERFORMANCE ANALYSIS OF BASEMENT FIN WALL OF THE SHANGHAI TOWER BASED ON THE INTERACTION BETWEEN PILE-RAFT FOUNDATION AND SUPERSTRUCTURE (EASEC12-524)
HH Sun, X Zhao,XP Li,JM Ding, and Y Zhou (Mr. Xin ZHAO)

CENTRAL PARK MIXED-USE BUILDING IN JAKARTA (EASEC12-588)
Sugeng Wijanto, Wawan Chendrawan, and Teddy Budjamin (Dr. Sugeng WIJANTO)

SERVICEABILITY PERFORMANCE OF PRESTRESSED CONCRETE BUILDINGS TAKING INTO ACCOUNT LONG-TERM BEHAVIOUR AND CONSTRUCTION SEQUENCE (EASEC12-634)
HL Yip, FTK Au, and S.T. Smith (Mr. Hing Lun YIP)

S02:CC2 : Computing Applications in Civil Engineering II
27 Jan., 15:40 - 17:10 (N101A)
Chairmen: Prof. Somsak SWADDIWUDHIPONG and Dr. Francis TK AU

SIMPLE PARTICLE SWARM OPTIMIZATION FOR SOLVING BEAM-SLAB LAYOUT DESIGN PROBLEMS (EASEC12-10)
A. Nimtawat and P. Nanakorn (Dr. Pruettha NANAKORN)

FLEXURAL STRENGTH AND DEFORMABILITY DESIGN OF REINFORCED CONCRETE BEAMS (EASEC12-138)
KJH Zhou, JCM Ho, and RKL Su (Mr. Kevin Jianhui ZHOU)

DEVELOPMENT OF TOTAL LOSS CLAIM DETERMINATION INFORMATION SYSTEM FOR REINFORCED CONCRETE BUILDINGS FOR RESIDENTIAL EARTHQUAKE BASIC INSURANCE IN TAIWAN (EASEC12-143)
CC Chen, Q Xue, FM Shih, and WC Chi (Dr. Cheng-Chung CHEN)

SUBSTRUCTURE ANALYSIS METHOD FOR DYNAMIC RESPONSE OF LARGE-SCALE SOIL SITE (EASEC12-484)
Zhang Rulin and Lou Menglin (Mr. Zhang RULIN)

FULL-RANGE ANALYSIS OF MULTI-SPAN PRESTRESSED CONCRETE SEGMENTAL BRIDGES (EASEC12-529)
Francis T.K. Au and Cliff Y.C. Leung (Prof. Francis T.K. AU)

TENSION-STIFFENING MODEL ATTRIBUTED TO TENSILE REINFORCEMENT FOR CONCRETE FLEXURAL MEMBERS (EASEC12-258)
G Kaklauskas, V Gribniak, D Salys, A Sokolov, and A Meskenas (Prof. Gintaris KAKLAUSKAS)

INVERSE TECHNIQUE FOR DEFORMATIONAL ANALYSIS OF CONCRETE BEAMS WITH ORDINARY REINFORCEMENT AND STEEL FIBERS (EASEC12-259)
G Kaklauskas, V Gribniak, and D Bacinskas (Prof. Gintaris KAKLAUSKAS)

NONLINEAR MODELING OF RC BEAMS SUBJECTED TO TORSION USING THE SMEARED CRACK MODEL (EASEC12-93)
D Mostofinejad and SB Talaeitaba (Mr. Sayed Behzad TALAEITABA)

PARAMETRIC STUDY OF BONDED CONNECTION IN COMPOSITE STRUCTURES THROUGH THE FE MODELING OF PUSH-OUT TEST (EASEC12-483)
Sovanvichet Lim and Fabrice Bernard (Mr. Sovanvichet LIM)

S03:CSB : Cable-Stayed Bridges
27 Jan., 15:40 - 17:10 (N101B)
Chairmen: Prof. Guido MORGENTHAL and Prof. PoHan CHEN

Session Keynote:
AERODYNAMIC BEHAVIOUR OF VERY LONG CABLE-STAYED BRIDGES DURING CONSTRUCTION (EASEC12-39)
G Morgenthal and Y Yamasaki (Prof. Guido MORGENTHAL)

WIND ENGINEERING ON THE NEW MILLENNIUM BRIDGE IN SOUTH KOREA (EASEC12-20)
Young-Min Kim, Younghak Kwak, Myeong-Su Choi, Jae-Joong Lee, and Kyung-Sik Cho (Dr. Young-Min KIM)

FORTH REPLACEMENT CROSSING – SPECIMEN DESIGN (EASEC12-44)
Steve Kite, Matt Carter, and Naeem Hussain (Mr. Steve KITE)

HONG KONG ZHUHAI MACAO LINK (EASEC12-77)
N.Hussain, Carlos Wong, and Matt Carter (Mr. Naeem HUSSAIN)

THE FIRST RESULTS FOR A NEW LAYOUT OF THE STAY CABLES FOR GREAT SPAN BRIDGES (EASEC12-149)
L. Anania, A. Badalà , S. Costa, and G. D'agata (Dr. Laura ANANIA)

SEISMIC ANALYSIS AND DESIGN OF MINPU DOUBLE-DECK CABLE-STAYED BRIDGE (EASEC12-170)
Hongyi Wei, Zhiqiang Wang, and Qinghai Feng (Prof. Hongyi WEI)

ESTIMATION OF CABLE TENSION USING MEASURED NATURAL FREQUENCIES (EASEC12-462)
Hoang Nam and Nguyen Trong Nghia (Dr. Nam HOANG)

AN EXPERIMENTAL STUDY ON TENSILE CHARACTERISTIC FOR CFRP CABLE WITHOUT SURFACE TREATMENTS (EASEC12-585)
Woo-Tai Jung and Jong-Sup Park (Dr. Woo-Tai JUNG)

DESIGN TECH AND RESEARCH ANALYSIS ON PRESTRESS STRENGTHING OF MAIN TOWER OF CHINA JIN MA BRIDGE (EASEC12-100)
Yu Baochu, Yu Qingjun, Cheng Xiaohong, and Wu Li Zhi (Prof. Yu BAOCHU)

S15:IP2 : Inverse Problems and Nondestructive Evaluation II
27 Jan., 15:40 - 17:10 (N104)
Chairmen: Prof. Guillermo RUS and Dr. Ray KL SU

IDENTIFICATION OF STRUCTURAL DAMAGES USING ISOMAP-BASED PATTERN CLASSIFICATION (EASEC12-637)
M.J. Jeong, J.H. Choi, and B.H. Koh (Prof. Bong-Hwan KOH)

CRACK DETECTION OF THIN PLATE STRUCTURES UTILIZING MEASURED VIBRATION (EASEC12-799)
HF Lam, Q Hu, and JH Yang (Miss. Qin HU)

AN APPLICATION OF NEURAL NETWORK TO DETECTION OF DETERIORATED STEEL STRUCTURAL MEMBERS (EASEC12-272)
Shinya Yura, Hideharu Nakamura, Katashi Fujii, and Keiko Abe (Mr. Shinya YURA)

ESTIMATION OF WIND-INDUCED TOP DRIFT OF HIGH-RISE STRUCTURES USING ARTIFICIAL NEURAL NETWORKS (EASEC12-401)
Lee Eunseok, Moon Jincheol, and Park Hyoseon (Mr. Eunseok LEE)

A STUDY ON THE EVALUATION OF FATIGUE CRACK AT WELDED JOINT FOR STEEL PLATE GIRDER RAILWAY (EASEC12-644)
Jin-Eun Park, Kab-Soo Kyung, Ssang-Sun Jun, and Jin-Gon Kim (Mr. Jin Eun PARK)

MONITORING OF FRP STRENGTHENED CONCRETE STRUCTURES USING FBG SENSORS (EASEC12-576)
B.Arun Sundaram, K.Kesavan, S.Parivallal, A.K.Farvaze Ahmed, and K.Ravisankar (Mr. B. Arun SUNDARAM)

AN INVERSE-PROBLEM BASED STOCHASTIC APPROACH TO MODEL THE CUMULATIVE DAMAGE EVOLUTION OF COMPOSITES (EASEC12-551)
J Chiachio, M Chiachio, and G Rus (Mr. Chiachio JUAN)

OPTICAL FBG SENSORS FOR STATIC STRUCTURAL HEALTH MONITORING (EASEC12-586)
Paulo Antunes, Humberto Varum, and Paulo André (Prof. Paulo ANDRÃ©)

S14:WB : Structural Performance of Medium-Rise and High-Rise Wood Buildings
27 Jan., 15:40 - 17:10 (N106)
Chairmen: Prof. Ying Hei CHUI and Prof. Ben YOUNG

Session Keynote:
CONTRIBUTION OF PLASTERBOARD FINISHES TO STRUCTURAL PERFORMANCE OF MULTI-STOREY LIGHT WOOD FRAME BUILDINGS (EASEC12-178)
Andi Asiz, Ying Hei Chui, Ghasan Doudak, Chun Ni, and Mohammad Mohammad (Dr. Andi ASIZ)

DEVELOPMENT OF HIGH PERFORMANCE STRUCTURAL TIMBER SYSTEMS FOR NON RESIDENTIAL BUILDINGS IN NEW ZEALAND AND AUSTRALIA (EASEC12-164)
Keith Crews, Andy Buchanan, Pierre Quenneville, and Stefano Pampanin (Prof. Keith CREWS)

SUSTAINABILITY PERFORMANCE CRITERIA FOR INDUSTRIALISED BUILDING SYSTEMS (EASEC12-31)
Riduan Yunus and Jay Yang (Mr. Riduan YUNUS)

CONSTRUCTION AND EXPERIMENTAL SEISMIC PERFORMANCE OF A FULL-SCALE SIX-STORY LIGHT-FRAME WOOD BUILDING (EASEC12-131)
John van de Lindt, Shiling Pei, and Steven Pryor (Prof. John VAN DE LINDT)

THE SEISMIC PERFORMANCE IN DIAPHRAGM PLANE OF MULTI-STOREY TIMBER AND CONCRETE HYBRID STRUCTURE (EASEC12-265)
Minjuan He, Shuo Li, Suyi Guo, and Chun Ni (Prof. Minjuan HE)

DIFFERENTIAL MOVEMENTS IN HYBRID MULT-STOREY TIMBER BUILDING (EASEC12-598)
Henry Meleki, Andi Asiz, Ian Smith, Sylvain Gagnon, and Mohammad Mohammad (Mr. Henry MELEKI)

VERY TALL WOODEN BUILDINGS WITH CROSS LAMINATED TIMBER (EASEC12-734)
Jan-Willem Van De Kuilen, Ario Ceccotti, Zhouyan Xia, and Minjuan He (Dr. Jan-Willem van de KUILEN)

S24:SSD3 : Structural Stability and Dynamics III
27 Jan., 15:40 - 17:10 (N107)
Chairmen: Dr. WenHui DUAN and Dr. Kevin WONG

Session Keynote:
VIBRATION ANALYSIS OF MINDLIN PLATES WITH CRACKS BY MLS-ELEMENT METHOD (EASEC12-705)
Li Zhou and Yang Xiang (Prof. Y XIANG)

SIZE-DEPENDENT OF INTERACTION BETWEEN A SCREW DISLOCATION AND A COATED NANO-INHOMOGENEITY (EASEC12-687)
DX Lei and ZY Ou (Mr. Zhi Ying OU)

SEISMIC APPLICATIONS OF NONLINEAR RESPONSE SPECTRA BASED ON THE THEORY OF MODAL ANALYSIS (EASEC12-542)
KKF Wong (Dr. Kevin WONG)

LATERAL- TORSIONAL BUCKLING OF NON- PRISMATIC THIN-WALLED BEAMS WITH NON-SYMMETRIC CROSS-SECTIONS (EASEC12-610)
Behrouz Asgarian and Masoumeh Soltani (Miss. Masoumeh SOLTANI)

ON THE PERFORMANCE OF PASSIVE TMDS IN REDUCING THE DAMAGE IN 2-D CONCRETE STRUCTURAL MODELS (EASEC12-664)
Fayaz Rofooei and Pooya Abtahi (Prof. Fayaz R. ROFOOEI)

COMPARISON OF STABILITY CRITERIA FOR CONCRETE DAMS IN DIFFERENT APPROXIMATE METHODS BASED ON FINITE ELEMENT ANALYSIS (EASEC12-99)
Mohammad Moftakhar and Hamid Reza Ghafouri (Mr. Mohammad MOFTAKHAR)

NOISE ISSUES OF MODAL IDENTIFICATION USING EIGENSYSTEM REALIZATION ALGORITHM (EASEC12-372)
Ping Li, Sau-Lon Hu, and Hua Jun Li (Ms. Ping LI)

FIELD MEASUREMENT AND BAYESIAN MODAL IDENTIFICATION OF A PRIMARY-SECONDARY STRUCTURE (EASEC12-57)
SK Au and FL Zhang (Mr. Fengliang ZHANG)

MODIFIED STRESS INTENSITY FACTOR EQUATIONS FOR SEMI-ELLIPTICAL SURFACE CRACKS IN FINITE THICKNESS AND WIDTH PLATES (EASEC12-751)
Yang Peng, Lewei Tong, Xiao-Ling Zhao,and Zhigang Xiao (Prof. Lewei TONG)

SSI : Soil Structure Interaction
27 Jan., 15:40 - 17:10 (N108)
Chairmen: Prof. Matthew Richard COOP and Dr. Yu WANG

Session Keynote:
LATERAL BREAKOUT RESISTANCE OF SHALLOWLY EMBEDDED OFFSHORE PIPELINES (EASEC12-640)
Y. S. Lee, C. C. Smith, and C. Y. Cheuk (Mr. Yat Sun LEE)

EFFECTS OF SOIL STRUCTURE INTERACTION ON STRENGTH REDUCTION FACTORS (EASEC12-161)
Muberra Eser Aydemir, Cem Aydemir, and Ibrahim Ekiz (Ms. Muberra ESER)

PHENOMENON OF INFLUENCE ZONE IN CIVIL ENGINEERING PRACTISE (EASEC12-648)
P. Kuklik and M. Broucek (Dr. Pavel KUKLIK)

3D DEM SIMULATION OF CRUSHABLE GRANULAR SOILS UNDER PLANE STRAIN COMPRESSION CONDITION (EASEC12-778)
Jeff F. Wang and Haibin Yan (Mr. Haibin YAN)

SIMULATION OF SUCTION CAISSON PENETRATION IN SEABED USING AN ADAPTIVE MESH TECHNIQUE (EASEC12-301)
Mostafa Zeinoddini, Seyyed Abbas Mousavi, and Mahmoud Reza Abdi (Mr. Mostafa ZEINODDINI)

EFFECT OF SOIL-STRUCTURE INTERACTION ON TORSIONAL RESPONSE OF ASYMMETRIC WALL-TYPE SYSTEMS (EASEC12-663)
H. Shakib and G.R. Atefatdoost (Prof. Hamzeh SHAKIB)

SEISMIC ANALYSIS ON SOIL-STRUCTURE INTERACTION OF BUILDINGS OVER SANDY SOIL (EASEC12-411)
Hossein Matinmanesh and Mohsen Saleh Asheghabadi (Mr. Hossein MATINMANESH)

ROCK-SOCKETTED LARGE DIAMETER BORED PILE AND GEOPHYSICAL SURVEY IN CAVERNOUS KARST AREA: TIN SHUI WAI PUBLIC LIBRARY CUM INDOOR RECREATION CENTRE (EASEC12-79)
C. T. Wong, K. P. Yim, M. K. Leung,and S. C. Fung (Ir. MK LEUNG)

SHAFT FRICTION BETWEEN MARBLE AND CONCRETE IN ROCK-SOCKETTED LARGE DIAMETER BORED PILE (EASEC12-256)
W. W. Li, C. T. Wong, K. P. Yim,and M. K. Leung (Ir. MK LEUNG)

TBWE2 : Tall Buildings and Wind Engineering I
27 Jan., 15:40 - 17:10 (N109)
Chairmen: Dr. Xin ZHAO and Prof. Edmund CC CHOI

STRUCTURAL DESIGN OF SHANGHAI TOWER FOR WIND LOADS (EASEC12-710)
X Zhao, JM Ding, and HH Sun (Dr. Xin ZHAO)

REGIONAL AND SEASONAL VARIATIONS OF THE CHARACTERISTICS OF GUST FACTOR IN HONG KONG AND THE OBSERVED LONG TERM TREND (EASEC12-50)
MC Wu, HY Mok, and CY Cheng (Dr. Man Chi WU)

INTERFERENCE EFFECT ON WIND LOADS ON GABLE ROOF BUILDING (EASEC12-509)
Alok David John, Gaurav Singla, Sumbul Shukla, and Rohit Dua (Mr. Gaurav SINGLA)

A SIMPLIFIED EVALUATION IN CRITICAL FREQUENCY AND WIND SPEED TO BRIDGE DECK FLUTTER (EASEC12-398)
Tan-Van Vu, Ho-Yup Lee, Seung-Young, and Hak-Eun Lee (Mr. Tan-Van VU)

COLUMN SHORTENING ANALYSIS WITH LUMPED CONSTRUCTION SEQUENCES (EASEC12-42)
Han-Soo Kim and Seung-Hak Shin (Prof. Han-Soo KIM)

COMPARISON ON WIND LOAD PREDICTION OF TRANSMISSION LINE BETWEEN CHINESE NEW CODE AND FOREIGN STANDARDS (EASEC12-768)
Jiang Qi and Deng Hongzhou (Miss. Qi JIANG)

FIBER ELEMENT BASED INELASTIC ANALYSIS PROCEDURE AND ENGINEERING (EASEC12-722)
Chen Xuewei, Han Xiaolei, Luo Fan, and Wu Shuang (Mr. Dino CHEN)

THE INFLUENCE OF SINGLE SHEAR WALLS ON THE BEHAVIOUR OF COUPLED SHEAR WALLS IN HIGH-RISE STRUCTURES (EASEC12-134)
JCD Hoenderkamp (Dr. J.C.D. HOENDERKAMP)

S01:CB : Composite Bridge
28 Jan., 09:00 - 10:30 (N101A)
Chairmen: Dr. Yufei WU

DESIGN OF DOUBLE COMPOSITE BRIDGES USING HIGH STRENGTH STEEL (EASEC12-233)
Changsu Shim, JW Whang, CH Chung, and PG Lee (Prof. Changsu SHIM)

PUNCHING SHEAR RESISTANCE OF STEEL FIBER REINFORCED CONCRETE FLAT SLABS (EASEC12-124)
L Nguyen-Minh, M Rovnák, T Tran-Quoc, and K Nguyen-Kim (Prof. Marián ROVŇÁK)

FATIGUE ANALYSIS OF ECC-STEEL COMPOSITE DECK UNDER WHEEL TRUCKING LOAD (EASEC12-36)
Ko Kakuma, Takashi Matsumoto, Toshiro Hayashikawa, and Xingwen He (Mr. Ko KAKUMA)

A STUDY ON THE FLEXURAL BEHAVIOR OF CFRP BOX BEAMS WITH DIFFERENT LAMINATE STRUCTURES (EASEC12-38)
Hiroki Sakuraba, Takashi Matsumoto, and Toshiro Hayashikawa (Mr. Hiroki SAKURABA)

FATIGUE VERIFICATION OF A COMPOSITE BRIDGE DETAIL BASED ON TESTING (EASEC12-454)
Tim Rauert and Benno Hoffmeister (Mr. Tim RAUERT)

AN EFFICIENT METHOD FOR TIME-DEPENDENT ANALYSIS OF COMPOSITE BEAMS (EASEC12-532)
X.T. SI and Francis T.K. AU (Mr. Xuetong SI)

S13:SP2 : Seismic Performance of Lifelines and Industrial Facilities II
28 Jan., 09:00 - 10:30 (N101B)
Chairmen: Dr. Mehran Seyed RAZZAGHI and Dr. Ray KL SU

EXPERIMENTAL STUDY ON THE SEISMIC BEHAVIOUR OF STRENGTHENED CONCRETE BEAM-COLUMN JOINTS BY SIMULATED EARTHQUAKE (EASEC12-85)
LU Zhoudao, Su Lei, and Yu Jiangtao (Mr. Su LEI)

EARTHQUAKE RESPONSE ANALYSIS OF SPHERICAL TANKS WITH SEISMIC ISOLATION (EASEC12-426)
Zhi-rong Yang, BI-Nan Shou, Liang Sun, and Jian-Jun Wang (Dr. Zhirong YANG)

ESTIMATION OF FRAGILITY CURVE OF SEWERAGE PIPES DUE TO SEISMIC DAMAGED DATA (EASEC12-728)
S. Nagata, K. Yamamoto, H. Ishida, and A. Kusaka (Dr. Kinya YAMAMOTO)

PLASTIC FATIGUE LIFE ESTIMATION FOR STEEL BRIDGE PIER BASE JOINT UNDER SEISMIC LOADING (EASEC12-632)
Okumura Yusuke, Nishigaki Yuji, Kawakami Yoriko, and Sakano Masahiro (Mr. Okumura YUSUKE)

FATIGUE LIFE SIMULATION OF RC BRIDGE SLAB WITH INITIAL DEFECTS UNDER WATER (EASEC12-447)
Chikako Fujiyama, Kaoru Kobayashi, Jingjie Zhan, and Koichi Maekawa (Miss. Jingjie ZHAN)

SEISMIC ANALYSIS OF EXISTING SCHOOL BUILDINGS USING DIFFERENT EGYPTIAN SEISMIC PROVISIONS (EASEC12-296)
Islam Ezz El-Arab (Dr. Islam EZZ EL-ARAB)

CMan4 : Construction Management IV
28 Jan., 09:00 - 10:30 (N104)
Chairmen: Dr. Swapan SAHA and Dr. KS LAW

COST EFFECTIVE THERMAL WALL SYSTEM FOR RESIDENTIAL HOUSING (EASEC12-712)
S. K. Saha (Dr. Swapan SAHA)

THE APPLICATION OF CONCURRENT ENGINEERING IN THE INSTALLATION OF FOAM FIRE EXTINGUISHING PIPING SYSTEM (EASEC12-310)
TP Tsai, HC Yang, and PH Liao (Mr. Jung-Pin TSAI)

THE IMPORTANCE OF PROJECT GOVERNANCE FRAMEWORK IN PROJECT PROCUREMENT PLANNING (EASEC12-181)
A. A. Hassim, S. Kajewski, and B. Trigunarsyah (Mrs. Aliza ABU HASSIM)

MAPPING RELATIONSHIPS AMONG THE ENABLERS OF KNOWLEDGE MANAGEMENT WITHIN HONG KONG CONSTRUCTION ORGANISATIONS (EASEC12-281)
Chan Man Yin Ede, and Sherif Mohamed (Mr. Man Yin Ede CHAN)

IMPROVING CONSTRUCTION MANAGEMENT OF AN EDUCATIONAL CENTER BY APPLYING EARNED VALUE TECHNIQUE (EASEC12-391)
Abas Naderpour and Masoud Mofid (Mr. Abbas NADER POUR)

EXPLORING THE INFLUENCE OF COMMITMENT ON STRESS FOR COST ESTIMATORS IN HONG KONG (EASEC12-809)
Mei-Yeung Leung and Dongyu Chen (Dr. Mei-Yeung LEUNG)

THE MECHANISM OF DESIGN ACTIVITY OVERLAPPING IN CONSTRUCTION PROJECTS AND THE TIMECOST TRADEOFF FUNCTION (EASEC12-764)
R. Dehghan and J.Y. Ruwanpura (Mr. Reza DEHGHAN)

IMPROVING PREDICTABILITY IN FAST TRACK PROJECTS (EASEC12-659)
(Mr. Reza DEHGHAN)

S12:CWB : Development of Composite Wind Blades
28 Jan., 09:00 - 10:30 (N106)
Chairmen: Prof. Tai Yan KAM

Session Keynote:
FAILURE ANALYSIS OF SMALL COMPOSITE SANDWICH WIND TURBINE BLADE SUBJECTED TO EXTREME WIND LOAD (EASEC12-240)
C. P. Chen and T. Y. Kam (Prof. Tai Yan KAM)

ENHANCING FRACTURE TOUGHNESS OF GLASS/EPOXY COMPOSITES FOR WIND BLADES USING SILICA NANOPARTICLES AND RUBBER PARTICLES (EASEC12-242)
Jia-Lin Tsai, Bao-Hung Huang, and Yi-Lieh Cheng (Prof. Jia-Lin TSAI)

NORMALIZATION PROCESS TECHNIQUE OF COMPOSITE FOAM-FILLED SANDWICH WIND TURBINE BLADES (EASEC12-243)
R. R. Chang, T. H. Chiang , Y. C. Tseng, and C. Y. Su (Prof. R. R. CHANG)

TORSIONAL RESPONSES OF GLASS-FIBER/EPOXY COMPOSITE BLADE SHAFT OF A SMALL WIND TURBINE (EASEC12-244)
Yu-Chung Tseng (Dr. Y. C. TSENG)

DEVELOPMENT OF FATIGUE TEST SYSTEM FOR SMALL COMPOSITE WIND TURBINE BLADES (EASEC12-245)
Feng-Min Lai, Shin-Han Yang, Jia-Hroung Wu, Chun-Teng Hsueh, and Jun-Xiang Lan (Dr. F. M. LAI)

FATIGUE LIFE ANALYSIS OF SMALL COMPOSITE SANDWICH WIND TURBINE BLADE (EASEC12-241)
Jia-Hroung Wu (Dr. J. H. WU)

CMS1 : Composite Materials/Structures I
28 Jan., 09:00 - 10:30 (N107)
Chairmen: Dr. Y Tommy LO

FINITE ELEMENT ANALYSIS FOR HYSTERETIC BEHAVIOR OF THIN-WALLED CFT COLUMNS WITH LARGE CROSS SECTIONS (EASEC12-661)
Yoshiaki Goto, Ghosh Prosenjit Kumar, and Kazumasa Seki (Dr. Prosenjit Kumar GHOSH)

INVESTIGATION OF STRESS-STRAIN MODELS FOR CONFINEMENT OF CONCRETE BY WELDED WIRE FABRIC (EASEC12-336)
Tavio, B. Kusuma, and P. Suprobo (Prof. Tavio -)

AXIAL LOAD BEHAVIOR OF CONCRETE COLUMNS WITH WELDED WIRE FABRIC AS TRANSVERSE REINFORCEMENT (EASEC12-337)
B. Kusuma, Tavio, and P. Suprobo (Mr. Benny KUSUMA)

EVALUATION OF SHEAR FAILURE OF STRAIN HARDENING CEMENTITIOUS COMPOSITE BEAMS (EASEC12-479)
Y.X. Zhang, N. Ueda, Y. Umeda, H. Nakamura, and M. Kunieda (Mr. Yongxing ZHANG)

EXPERIMENTAL STUDY ON THE AXIAL BEHAVIOR OF YLRC COMPOSITE COLUMNS (EASEC12-534)
Hyung-Geun Kim, Myeong-Han Kim, and Sang-Dae Kim (Mr. Hyung-Geun KIM)

SHEAR PERFORMANCE OF STEEL FIBROUS CONCRETE BEAMS (EASEC12-624)
CE Chalioris and EF Sfiri (Mrs. Ermioni SFIRI)

S17:SM : Advances in Design and Construction of Structural Masonry
28 Jan., 09:00 - 10:30 (N108)
Chairmen: Prof. Manicka DHANASEKAR and Mr. Yat Sun LEE

Session Keynote:
SHEAR IN REINFORCED AND UNREINFORCED MASONRY: RESPONSE, DESIGN AND CONSTRUCTION (EASEC12-315)
Manicka Dhanasekar (Prof. Manicka DHANASEKAR)

EFFECTS OF NONSTRUCTURAL BRICK INFILLS ON AN INDONESIAN EARTHQUAKE-DAMAGED BUILDING (EASEC12-574)
Yasushi Sanada, Daisuke Konishi, Maidiawati, and Swezinwin (Prof. Yasushi SANADA)

PROBLEMS OF STRENGTHENING OF MASONRY WITH CARBON- AND GLASS-FIBRE FABRIC (EASEC12-429)
J. Witzany, T. Cejka, and R. Zigler (Prof. Jiri WITZANY)

EXPERIMENTAL STUDY ON WALL-FRAME CONNECTION OF CONFINED MASONRY WALL (EASEC12-446)
Wira Wijaya, Dyah Kusumastuti, Made Suarjana, Rildova, and Krishna Pribadi (Mr. Wira WIJAYA)

SEISMIC CAPACITY COMPARISON BETWEEN SQUARE AND CIRCULAR PLAN ADOBE CONSTRUCTION (EASEC12-730)
B. Samali, W. Jinwuth, K. Heathcote, and C. Wang (Mr. Watcharin JINWUTH)

EXPERIMENTAL AND THEORETICAL NON-LINEAR BEHAVIOR OF REINFORCED MASONRY BRICK WALLS (EASEC12-187)
A.A. Akbarzade M. and A.A. Tasnimi (Mr. Abbas AKBARZADE)

INNOVATIVE CLAY UNIT REINFORCED MASONRY SYSTEMS: TESTING, DESIGN AND APPLICATIONS IN EUROPE (EASEC12-731)
F. Mosele and F. Da Porto (Dr. Francesca DA PORTO)

ADM1 : Analytical and Design Methods I
28 Jan., 09:00 - 10:30 (N109)
Chairmen: Prof. Yong-Lin PI and Prof. Chun-Man CHAN

INTERVAL THERMOELASTIC RESPONSES OF ELASTICALLY RESTRAINED STEEL BEAMS (EASEC12-286)
Y-L Pi, MA Bradford, and W Gao (Prof. Yong-Lin PI)

INVESTIGATION OF THE TUBE-GUSSET CONNECTION IN 600MPA CIRCULAR HOLLOW SECTION (EASEC12-556)
Hee-Du Lee, Jung-Min Lee, Swoo-Heon Lee, and Kyung-Jae Shin (Mr. Hee Du LEE)

DESIGN AND ANALYSIS OF A REINFORCED CONCRETE BEAM RETROFITTED BY EXTERNALLY BONDED H-TYPE STEEL MEMBER (EASEC12-188)
Xiao-Song Ren and Bin Zhou (Mr. Bin ZHOU)

AN EXPERIMENTAL INVESTIGATION OF THE STRESS-STRAIN DISTRIBUTION IN HIGH STRENGTH CONCRETE DEEP BEAMS. (EASEC12-275)
M Mohammadhassani, M Zamin Jumaat, M Chemrouk, A Ghasemi, S.J.S.Hakim, and N Rafieipour (Mr. Mohammad MOHAMMADHASSANI)

NEW MODEL FOR ESTIMATION OF SHEAR STRENGTH OF REINFORCED CONCRETE INTERIOR BEAM-COLUMN JOINTS (EASEC12-363)
Bashir Ahmad Muhsen and Hisashi Umemura (Mr. Bashir Ahmad MUHSEN)

ANALYSIS AND DESIGN OF REINFORCED CONCRETE BRIDGE COLUMN BASED ON BIM (EASEC12-417)
Hurn-min Lee, Suk-jin Oh, Ju-hyun Chen, and Hyun-mock Shin (Mr. Hurn Min LEE)

SR1 : Safety and Reliability I
28 Jan., 09:00 - 10:30 (N111)
Chairmen: Dr. Haijuan DUAN and Dr. Jeff JF WANG

EFFECTS OF INITIAL IMPERFECTION OF BOLTED END-PLATE CONNECTIONS IN THE RELIABILITY OF STEEL PORTAL FRAMES (EASEC12-329)
H. J. Duan, J. C. Zhao, and Z. S. Song (Dr. Haijuan DUAN)

REDUNDANCY OF STRUCTURAL SYSTEMS IN THE CONTEXT OF STRUCTURAL SAFETY (EASEC12-96)
Zhao-Xin Fang and Hai-Tao Fan (Dr. Zhao-Xin FANG)

STUDY ON FALL PROTECTION FROM SCAFFOLDS BY SCAFFOLD SHEETING DURING CONSTRUCTION (EASEC12-128)
Katsutoshi Ohdo, Yasumichi Hino, Seiji Takanashi, Hiroki Takahashi, and Yasuo Toyosawa (Dr. Katsutoshi OHDO)

PERFORMANCE ASSESSMENT OF BUCKLING RESTRAINED BRACES (EASEC12-448)
HY Chang and CK Chiu (Prof. Chien-Kuo CHIU)

ASSESSMENT OF RISK TO SCHOOL BUILDINGS RESULTING FROM DISTANT EARTHQUAKES (EASEC12-506)
K. T. Tan and H. Abdul Razak (Mr. Kok Tong TAN)

SAFETY AT SPORTS STADIA (EASEC12-743)
A. Melrose, P. Hampton, and P. Manu (Mr. Paul HAMPTON)

CT4 : Concrete Technology IV
28 Jan., 10:50 - 12:20 (N101A)
Chairmen: Dr. Yufei WU

STRUCTURAL BEHAVIORS OF DEEP BEAMS UNDER COMBINED AXIAL AND BENDING FORCE (EASEC12-257)
H. S. KIM, M. S. LEE, and Y. S. SHIN (Prof. Hee Sun KIM)

SHEAR CAPACITY OF BIAXIAL HOLLOW SLAB WITH DONUT TYPE HOLLOW SPHERE (EASEC12-413)
Joo-Hong Chung, Hyun-Ki Choi, Seung-Chang Lee, and Chang-Sik Choi (Mr. Joo Hong CHUNG)

AN INVESTIGATION ON DURABILITY OF MIXTURE OF ALKALI- RESISTANT GLASS AND EPOXY FOR CIVIL ENGINEERING APPLICATION (EASEC12-791)
H. S. Oh, D. Y. Moon, and S. D. Kim (Dr. Do Young MOON)

BEHAVIOR OF CONCRETE WITH POLYMER ADDITIVE IN FRESH AND HARDENED STATES (EASEC12-269)
Mohammad Ismail, Bala Muhammad, Jamaluddin Mohd Yatim, Ainul Haezah Noruzman, and Yong Woo Soon (Dr. Mohammad ISMAIL)

INFLUENCE OF TRANSVERSE REINFORCING BAR SPACING ON FLEXURAL CRACK SPACING ON REINFORCED CONCRETE (EASEC12-98)
Daguang Han, Manfred Keuser, Xu Zhao, and Benjamin Langer (Mr. Daguang HAN)

MODIFICATION ON EQUIVALENT STRESS BLOCK OF NORMAL-STRENGTH CONCRETE BY INCORPORATING STRAIN GRADIENT EFFECTS (EASEC12-139)
J Peng, JCM Ho, and HJ Pam (Mr. Jun PENG)

THE INFLUENCE OF CONCRETE COVER TO PROTECT REINFORCING BAR ON LOAD CARRYING CAPACITY OF FLOOR SLAB (EASEC12-745)
Duinkherjav Ya and Javkhlan B (Prof. Duinkherjav YAGAANBUYANT)

MRR2 : Maintenance, Repairs and Rehabilitation II
28 Jan., 10:50 - 12:20 (N101B)
Chairmen: Dr. Wen-Shao CHANG and Dr. Eric WM LEE

ANALYTICAL STUDY ON SIGNIFICANCE OF CORRODED SURFACE MEASUREMENT INTENSITY ON RESIDUAL STRENGTH PREDICTION (EASEC12-175)
J.M.R.S. Appuhamy, T. Kaita, M. Ohga, and K. Fujii (Mr. Jayasinghe Mudalige Ruwan Sanjeewa APPUHAMY)

BUILDING CONSTRUCTION IN NORTH CYPRUS: PROBLEMS AND ALTERNATIVES SOLUTIONS (EASEC12-432)
Murude Celikag and Sepanta Naimi (Mr. Sepanta NAIMI)

PEELING/FALLING OF PROTECTIVE COVERING CONCRETE AND OPTIMAL REPAIR AND INSPECTION POLICY (EASEC12-203)
Taiki Fukuda, Ryosuke Okizuka, Kiyoyuki Kaito, and Tetsuo Ito (Mr. Taiki FUKUDA)

ANALYTICAL STUDY ON SHEAR CAPACITY OF STEEL I-GIRDERS WITH LOCAL CORROSION NEARBY SUPPORTS (EASEC12-283)
Cuiping Liu, Takeshi Miyashita, and Masatugu Nagai (Ms. Cuiping LIU)

AN EVALUATION METHOD FOR THE REMAINING STRENGTH OF A PLATE GIRDER WITH LOCAL CORROSION UNDER SLEEPERS (EASEC12-317)
Mitsuwo Fukuda, Katashi Fujii, Taishi Nakayama, and Shigeyuki Matsui (Mr. Fukuda MITSUWO)

DAMAGE INVESTIGATION, STRENGTHENING, AND REPAIR OF JILIN HIGHWAY DOUBLE-CURVED ARCH CONCRETE BRIDGE IN CHINA (EASEC12-478)
Ali Fadhil Naser and Wang Zonglin (Mr. Ali FADHIL)

BE3 : Bridge Engineering III
28 Jan., 10:50 - 12:20 (N104)
Chairmen: Dr. Zhengying LI and Dr. Jie YANG

SEISMIC RETROFIT OF EXISTING STEEL ARCH BRIDGE USING VISCOUS DAMPER (EASEC12-569)
Elif Cagda Kandemir, Taiji Mazda, Hidenori Nurui, and Hirokazu Miyamoto (Miss. Elif Cagda KANDEMIR)

INFLUENCE OF TRAVELING WAVE EFFECT ON PASSIVE SEISMIC CONTROL OF LONG-SPAN BRIDGE (EASEC12-744)
Li Zhengying, Mu Dejian, and Dang Pengpeng (Dr. Zhengying LI)

SEISMIC RESPONSE OF SIMPLY SUPPORTED DECK BRIDGES WITH AUXILIARY SUPERELASTIC DEVICES (EASEC12-227)
D Cardone, G. Perrone, and S. Sofia (Dr. Donatello CARDONE)

FIELD INVESTIGATION OF DAMAGES AND PERFORMANCE EVALUATION OF LONGTAN TRUSS-ARCH CONCRETE BRIDGE IN CHINA (EASEC12-493)
Ali Fadhil Naser and Wang Zonglin (Mr. Ali FADHIL)

NUMERICAL ANALYTICAL MODEL FOR SEISMIC BEHAVIOR OF PRESTRESSED CONCRETE BRIDGE COLUMN SYSTEMS (EASEC12-204)
Zhiqiang Wang, Wei Song, Yuanyuan Wang, and Hongyi Wei (Dr. Zhiqiang WANG)

KNOCK-OFF EFFECT OF STEEL SIDE BLOCK AS DISPLACEMENT RESTRAINERS ON DYNAMIC RESPONSE OF ISOLATED BRIDGE STRUCTURE (EASEC12-157)
Kazuyuki Ishihara, Masahide Mtsumura, Masahiko Yoshida, and Minoru Sakaida (Mr. Kazuyuki ISHIHARA)

SEISMIC PERFORMANCE EVALUATION OF URBAN BRIDGE USING STATIC NONLINEAR PROCEDURE, CASE STUDY: HAFEZ BRIDGE (EASEC12-366)
A. Nicknam, A. Mosleh, and H. Hamidi Jamnani (Miss. Araliya MOSLEH)

OBSERVED ALONGWIND VIBRATION OF A SUSPENSION BRIDGE TOWER (EASEC12-747)
DM Siringoringo and Y Fujino (Dr. Dionysius SIRINGORINGO)

S10:NC : Deformation of Nano-Carbon Materials
28 Jan., 10:50 - 12:20 (N106)
Chairmen: Prof. Hiroyuki SHIMA and Dr. CW LIM

Session Keynote:
ELASTIC AND PLASTIC DEFORMATION OF CARBON NANOTUBES (EASEC12-154)
M. Sato (Dr. Motohiro SATO)

SYSTEMATICS OF TOROIDAL, HELICALLY-COILED CARBON NANOTUBES, HIGH-GENUS FULLERENES, AND OTHER EXOTIC GRAPHITIC MATERIALS (EASEC12-185)
(Mr. C. CHUANG)

TIGHT-BINDING CALCULATION OF DEFORMATION AND BAND GAP OF SINGLE-WALLED CARBON NANOTUBES UNDER AXIAL TENSION AND RADIAL COMPRESSION (EASEC12-274)
Yoshitaka Umeno (Prof. Yoshitaka UMENO)

VIBRATIONS OF NONLOCAL TIMOSHENKO BEAMS USING ORTHOGONAL COLLOCATION METHOD (EASEC12-716)
Lai-Yun Wu, Lap-Loi Chung, Cheng-Hung Wu, Hsu-Hui Huang, and Kun-Wei Lin (Prof. Lai-Yun WU)

ANALYSIS OF RIGID FRICTIONLESS INDENTATION ON HALF-SPACE WITH SURFACE ELASTICITY (EASEC12-801)
Yutiwadee Pinyochotiwong, Jaroon Rungamornrat, and Teerapong Senjuntichai (Miss. Yutiwadee PINYOCHOTIWONG)

ON NEW INTERPRETATION OF THE STRANGE NONLOCAL STRESS-STRAIN RATE FOR NANOSTRUCTURES WHICH IS NOT A STIFFNESS INDICATOR (EASEC12-199)
C.W. Lim (Ir. Dr. C.W. LIM)

CMS2 : Composite Materials/Structures II
28 Jan., 10:50 - 12:20 (N107)
Chairmen: Dr. Takeshi MIYASHITA

STRESS ANALYSIS FOR STEEL PLATE WITH MULTILAYERED CFRP UNDER UNIAXIAL LOADING (EASEC12-196)
Takeshi Miyashita and Masatsugu Nagai (Dr. Takeshi MIYASHITA)

FORMULATION FOR MAXIMUM SHEAR FORCE ON L-SHAPE SHEAR CONNECTOR SUBJECTED TO STRUT COMPRESSIVE FORCE AT SPLITTING CRACK OCCURRENCE IN STEEL-CONCRETE COMPOSITE STRUCTURES (EASEC12-236)
R. Soty, and H. Shima (Mr. Soty ROS)

A NOVEL MODELLING TECHNIQUE FOR BLAST ANALYSIS OF STEEL-CONCRETE COMPOSITE PANELS (EASEC12-340)
N. Anandavalli, N. Lakshmanan, R. Nagesh Iyer, G. M. Samuel Knight,and J. Rajasankar (Mrs. N ANANDAVALLI)

EXPERIMENTAL STUDY ON LATERAL-TORSIONAL BUCKLING OF PFRP CANTILEVERED CHANNEL BEAMS (EASEC12-374)
Jaksada Thumrongvut and Sittichai Seangatith (Mr. Jaksada THUMRONGVUT)

EXPERIMENTAL STUDY ON SEISMIC STRENGTHENING SCHEME OF RC PIER BY ARAMID FIBER ROPE (EASEC12-397)
Hidetoshi Shiohata and Takumi Shimomura (Mr. Hidetoshi SHIOHATA)

FATIGUE STRENGTH OF HYBRID STEEL-POLYPROPYLENE FIBROUS CONCRETE BEAMS IN FLEXURE (EASEC12-414)
Surinder Pal Singh (Dr. Surinder Pal SINGH)

S11:RV : Random Vibration and Engineering Applications
28 Jan., 10:50 - 12:20 (N108)
Chairmen: Prof. Jiahao LIN and Mr. Yat Sun LEE

Session Keynote:
PSEUDO EXCITATION METHOD AND SOME RECENT DEVELOPMENTS (EASEC12-92)
Jiahao Lin, Yahui Zhang, and Yan Zhao (Prof. Jiahao LIN)

MATHEMATICAL SIMULATION OF CROSS-WIND VIBRATIONS IN A MONO-CABLE CHAIR ROPEWAY (EASEC12-249)
Radostina Petrova, Stanimir Karapetkov, Silvia Dechkova, and Plamen Petrov (Mrs. Silvia DECHKOVA)

STOCHASTIC SEISMIC RESPONSE ANALYSIS OF BASE-ISOLATED HIGH-RISE BUILDINGS (EASEC12-133)
Changfei Ma, Yahui Zhang, Yan Zhao, Ping Tan, and Fulin Zhou (Dr. Changfei MA)

SENSITIVITY ANALYSIS FOR STRUCTURES SUBJECTED TO STATIONARY RANDOM EXCITATIONS (EASEC12-299)
Y Zhao and FY Wang (Dr. Zhao YAN)

ANALYSIS OF AERODYNAMIC LOAD EFFECTS ON THIN PLAT SECTION IN MULTIPLE FAN ACTIVE CONTROL WIND TUNNEL (EASEC12-523)
Tao Pan, Lin Zhao, Shuyang Cao, Yaojun Ge, and Shigehira Ozono (Mr. Tao PAN)

ADM2 : Analytical and Design Methods II
28 Jan., 10:50 - 12:20 (N109)
Chairmen: Dr. WH FOK

OPTIMAL ALLOCATION OF NON-LINEAR VISCOUS DAMPERS FOR THREE-DIMENSIONAL BUILDING STRUCTURES (EASEC12-500)
LJ Leu and JT Chang (Prof. Liang-Jenq LEU)

A GENERAL METHODOLOGY FOR DECOUPLING DAMPED LINEAR SYSTEMS (EASEC12-522)
Fai Ma and Matthias Morzfeld (Prof. Fai MA)

STRUCTURAL PERFORMANCE ASSESSMENT AND CONTROL OF SUPER TALL BUILDINGS DURING CONSTRUCTION (EASEC12-121)
Nanxiang Liu, Xin Zhao, Huahua Sun, Yiming Zheng, and Jieming Ding (Mr. Xin ZHAO)

N-V INTERACTION IN REINFORCED CONCRETE ELEMENTS WITHOUT STIRRUPS (EASEC12-55)
MB Madsen, S Hansen, LC Hoang, and J Maagaard (Prof. Linh Cao HOANG)

AN UNCONDITIONALLY STABLE EXPLICIT METHOD FOR STRUCTURAL DYNAMICS (EASEC12-770)
Shih-Hsun Yin (Dr. Shih-Hsun YIN)

APPLICATION OF GA TECHNIQUES FOR SOLVING PRECEDENT RELATIONSHIP PROBLEM IN PROJECT SCHEDULING OPTIMIZATION (EASEC12-784)
I. W. H. Fung, C. Huang, and V. W. Y. Tam (Mr. C. HUANG)

ANTIPLANE ELASTODYNAMIC ANALYSIS OF A HALF-PLANE WEAKENED BY MULTIPLE CRACKS (EASEC12-113)
M. Ayatollahi (Dr. Mojtaba AYATOLLAHI)

RETROFITTING OF MOMENT CONNECTION OF DOUBLE-I BUILT- UP COLUMNS USING TRAPEZOIDAL STIFFENERES (EASEC12-381)
A. Deylami and M. Salami (Mr. Mohsen SALAMI)

CONTRACTUAL RISKS IN FAST-TRACK PROJECTS (EASEC12-662)
M. Moazzami, R. Dehghan,and J.Y. Ruwanpura (Mr. Reza DEHGHAN)

SR2 : Safety and Reliability II
28 Jan., 10:50 - 12:20 (N111)
Chairmen: Prof. Hong HAO and Dr. Jeff JF WANG

DEVELOPMENT OF A SIMPLIFIED NUMERICAL METHOD FOR STRUCTURAL RESPONSE ANALYSIS TO BLAST LOAD (EASEC12-349)
Jun Li and Hong Hao (Mr. Jun LI)

UNCERTAINTY AND RISK ANALYSIS OF COLLECTION EVACUATION MODEL OF NATIONAL PALACE MUSEUM (EASEC12-783)
Y. T. Wu, C. P. Lin, C. H. Chang, and K. C. Lai (Mr. Yi-Tse WU)

SELECTION AMONG CPTU-BASED LIQUEFACTION MODELS (EASEC12-47)
Jianye Ching and C. Hsein Juang (Prof. Jianye CHING)

ITERATIVE PROBABILISTIC APPROACH FOR SELECTION OF TIME-VARYING MODEL CLASSES (EASEC12-6)
Ka In Hoi, Ka Veng Yuen, and Kai Meng Mok (Mr. Ka In HOI)

GAUGING THE RELIABILITY OF STRUCTURAL DESIGN FOR BUILDINGS AND INFRASTRUCTURES FROM MALAYSIAN ENGINEERS' VIEWPOINT (EASEC12-19)
Choong Luin Jeffrey Chiang, Yong Eng Tu, and Cher Siang Tan (Ir. Dr. Choong Luin JEFFREY CHIANG)

CT5 : Concrete Technology V
28 Jan., 13:50 - 15:20 (N101A)
Chairmen: Dr. Izni Syahrizal IBRAHIM and Dr. Ching Tai NG

EFFECTS ON MECHANICAL PROPERTIES OF INDUSTRIALISED STEEL FIBRES ADDITION TO NORMAL WEIGHT CONCRETE (EASEC12-777)
I. S. Ibrahim and M. B. Che Bakar (Dr. Izni IBRAHIM)

PERFORMANCE-EVALUATION OF CONCRETE PROPERTIES FOR DIFFERENT COMBINED AGGREGATE GRADATION APPROACHES (EASEC12-699)
Warda Bint Ashraf and Munaz Ahmed (Ms. Warda BINT ASHRAF)

PRE-PERFORATED POST-REINFORCED STRUCTURAL PANELS OF BAKED CLAY AS CHEAPER ALTERNATIVE OF RCC CONSTRUCTION (EASEC12-399)
Abdul Aziz Ansari, Mahmood Memon, and Ghous Bux Khaskheli (Dr. Abdul Aziz ANSARI)

DURABILITY OF POLYMER AND FLY ASH MODIFIED FERRO CEMENT ELEMENTS (EASEC12-72)
Vankudothu Bhikshma, Ravande Kishore, and Ravvula Srinivas (Dr. V. BHIKSHMA)

EFFECT OF PALM OIL FUEL ASH IN CONTROLLING HEAT OF HYDRATION OF CONCRETE (EASEC12-74)
A.S.M. Abdul Awal and M. Warid Hussin (Dr. A.S.M. Abdul AWAL)

FAILURE OF BLAST-LOADED REINFORCED CONCRETE SLABS (EASEC12-766)
JS Kuang and HF Tsoi (Mr. H. F. TSOI)

STUDY ON STRENGTH CHARACTERISTICS OF HIGH STRENGTH RICE HUSK ASH CONCRETE (EASEC12-71)
Ravande Kishore, V.Bhikshma, and P.Jeevana Prakash (Dr. V. BHIKSHMA)

MRR3 : Maintenance, Repairs and Rehabilitation III
28 Jan., 13:50 - 15:20 (N101B)
Chairmen: Dr. Wen-Shao CHANG and Dr. KS LAW

MECHANICAL BEHAVIOR OF A COMPOSITE BOX BRIDGE USED FOR 40 YEARS (EASEC12-271)
S. Yamaguchi, K. Fujii, M. Fujii, and T. Yamamoto (Miss. Shiori YAMAGUCHI)

LIFE CYCLE ASSESSMENT OF TIMBER COMPONENTS IN TAIWAN TRADITIONAL TEMPLES (EASEC12-279)
Sok Yee Yeo, Min-Fu Hsu, Wen-Shao Chang, and Jui-Ling Chen (Miss. Sok Yee YEO)

INVESTIGATIONS ON EARTHQUAKE DAMAGES OF TRAJUMAS HALL IN THE SULTAN'S PALACE YOGYAKARTA (EASEC12-591)
RB Santosa and YP Prihatmaji (Mr. Revianto SANTOSA)

COMPRESSION BEHAVIORS OF THICKNESS-REDUCED STEEL PIPES REPAIRED WITH UNDERWATER WELDS (EASEC12-186)
Xiao Chen, Yasuo Kitane, and Yoshito Itoh (Mr. Xiao CHEN)

STEEL PLATE PRE-STRESSING REINFORCEMENT FOR COPED STEEL GIRDER ENDS (EASEC12-607)
Yuta Nagao, Kentaro Matsumoto, Masahiro Sakano, and Hironori Namiki (Mr. Yuta NAGAO)

EXPERIMENTAL STUDY ON REMAINING STRENGTH ESTIMATION METHOD OF CORRODED WIDE STEEL PLATES UNDER TENSILE FORCE (EASEC12-176)
T. Kaita, J.M.R.S. Appuhamy, K. Itogawa, M. Ohga, and K. Fujii (Prof. Tatsumasa KAITA)

SUSTAINABLE FRAMES FOR SEISMIC RESISTANCE TO CAPTIVE COLUMN DEFECTS (EASEC12-583)
C Jayaguru and K Subramanian (Mr. JAYAGURU C)

CMe : Computational Mechanics
28 Jan., 13:50 - 15:20 (N104)
Chairmen: Dr. Jie YANG

BENDING ANALYSIS OF FOLDED LAMINATED PLATES BY THE FSDT MESHFREE METHOD (EASEC12-308)
L. X. Peng, K. M. Liew, and S. Kitipornchai (Dr. Linxin PENG)

NUMERICAL TECHNIQUE FOR SURFACE OPENING DISPLACEMENT OF AN EXTERNAL CRACK IN AN INFINITE ELASTIC SPACE (EASEC12-147)
S. Chaiyat and K. Klattikomol (Dr. Sumitra CHAIYAT)

AN EFFICIENT SENSITIVITY ANALYSIS METHOD FOR OPTIMIZATION OF VEHICLE RANDOM VIBRATIONS (EASEC12-163)
WT Xu, Y Zhao, F Lu, and DY Zhang (Dr. Xu WENTAO)

EXPLICIT DYNAMIC ALGORITHM FOR MLS DIFFERENCE METHOD (EASEC12-590)
KH Kim, SH Lee, and YC Yoon (Mr. Kyeong-Hwan KIM)

BOUNDING GRID ALGORITHM FOR CALCULATING PARTICLE INTERACTIONS IN SPH SIMULATIONS (EASEC12-406)
Naohiro Kawada, Buntara S. Gan, Iswandi Imran, and Hiroyuki Ninomiya (Mr. Naohiro KAWADA)

EXPLICIT AND IMPLICIT EXTENDED MLS DIFFERENCE METHODS FOR STEFAN PROBLEMS (EASEC12-592)
Y.C. Yoon (Prof. Young-Cheol YOON)

S23:VC2 : Vibration Control of Civil Structures: New Development II
28 Jan., 13:50 - 15:20 (N106)
Chairmen: Dr. Songye ZHU and Dr. Johnny Chi Yin CHEUK

Session Keynote:
TOWARDS VIBRATION FREE BRIDGE BOX GIRDERS (EASEC12-587)
Allan Larsen and Alanna Wall (Dr. Allan LARSEN)

MODELING AND ANAYLZING OF HYSTERESIS BEHAVIOR OF MAGNETORHEOLOGICAL DAMPERS (EASEC12-601)
Xinchun Guan, Pengfei Guo, and Jinping Ou (Prof. Xinchun GUAN)

SEMI-ACTIVE LQG CONTROL OF SEISMICALLY EXCITED NONLINEAR BUILDINGS USING OPTIMAL TAKAGI-SUGENO INVERSE MODEL OF MR DAMPERS (EASEC12-688)
Mohsen Askari, Jianchun Li, and Bijan Samali (Mr. Mohsen ASKARI)

INVESTIGATION OF THE PARAMETERS OF HERTZ IMPACT MODEL FOR THE POUNDING ANALYSIS OF HIGHWAY BRIDGE (EASEC12-604)
Lili Cui, Anxin Guo, and Hui Li (Prof. Anxin GUO)

A COMPARISON BETWEEN A SEMI-ACTIVE TUNED MASS DAMPER AND AN ACTIVE TUNED MASS DAMPER (EASEC12-593)
H.R. Owji, A. Hossain Nezhad Shirazi, and H. Hooshmand Sarvestani (Mr. Hamid OWJI)

USE OF DUAL SYSTEMS IN TADAS DAMPERS TO IMPROVE SEISMIC BEHAVIOR OF BUILDINGS IN DIFFERENT LEVELS (EASEC12-550)
Hessam Shamshiri Dareini, and Behrokh Hosseini Hashemi (Mr. Hessam SHAMSHIRI DAREINI)

PRELIMINARY NUMERICAL STUDY ON TRID SYSTEM FOR FLUTTER VIBRATION CONTROL OF BRIDGE STRUCTURE (EASEC12-804)
C.W. Zhang, J.L. Li, H. Li, and J.P. Ou (Dr. Chunwei ZHANG)

CMS3 : Composite Materials/Structures III
28 Jan., 13:50 - 15:20 (N107)
Chairmen: Dr. Gianluca RANZI

LONG-TERM EXPERIMENTS OF COMPOSITE STEEL-CONCRETE BEAMS (EASEC12-338)
S. Al-deen, G. Ranzi, and Z. Vrcelj (Dr. Gianluca RANZI)

A STUDY ON THE SHRINKAGE CONTROL OF FIBER REINFORCED CONCRETE PAVEMENT (EASEC12-577)
Sung-Yong Choi, Jong-Sup Park, and Woo-Tai Jung (Mr. Sung-Yong CHOI)

PERMEABILITY OF STEEL FIBRE REINFORCED CONCRETE – INFLUENCE OF FIBRE PARAMETERS (EASEC12-200)
A.P. Singh and Dhirendra Singhal (Dr. Amrit PAL SINGH)

WOVEN FABRIC COMPOSITES AND ITS BEHAVIOR UNDER ANTI-PLANE LOADING (EASEC12-247)
D. Derakhshan and F. Pourfakharan (Mr. Farid POURFAKHARAN)

DEFLECTION ANALYSIS OF WOVEN COMPOSITE PLANES UNDER IN-PLANE LOADING (EASEC12-252)
D. Derakhshan and R.T. Faal (Dr. Davar DERAKHSHAN)

EXPERIMENTAL INVESTIGATION ON USING MESH AS CONFINEMENT FOR HIGH STRENGTH CONCRETE COLUMNS (EASEC12-351)
Hua Zhao and M. N. S. Hadi (Ms. Hua ZHAO)

EE5 : Earthquake Engineering V
28 Jan., 13:50 - 15:20 (N108)
Chairmen: Dr. Islam EZZ EL-ARAB and Mr. Yat Sun LEE

SEISMIC MICROZONATION IN HURGHADA CITY (EGYPT) (EASEC12-136)
I. Ezz El-Arab (Dr. Islam EZZ EL-ARAB)

COMPARING THE NONLINEAR BEHAVIORS OF STEEL AND CONCRETE LINK BEAMS IN COUPLED SHEAR WALLS SYSTEM BY FINITE ELEMENT ANALYSIS (EASEC12-680)
Mahmood Hosseini, Hossein Sadeghi, and Seidali Habiby (Prof. Mahmood HOSSEINI)

SIMPLIFICATION OF EARTHQUAKE ACCELEROGRAMS FOR QUICK TIME HISTORY ANALYSES BY USING THEIR MODIFIED INVERSE FOURIER TRANSFORMS (EASEC12-681)
Alireza Faroughi and Mahmood Hosseini (Mr. Alireza FAROUGHI)

ASSESSMENT OF THE NONLINEAR BEHAVIOR OF CONNECTIONS IN WATER DISTRIBUTION NETWORKS FOR THEIR SEISMIC EVALUATION (EASEC12-690)
Mahmood Hosseini and Samira Jalili (Miss. Samira JALILI)

A SIMPLIFIED METHOD FOR SEISMIC ANALYSIS OF TANKS WITH FLOATING ROOF BY USING FINITE ELEMENT METHOD: CASE STUDY OF KHARG (SOUTHERN IRAN) ISLAND TANKS (EASEC12-702)
Mahmood Hosseini, Amirhossein Soroor, Ali Sardar, and Farshid Jafarieh (Mr. Amirhossein SOROOR)

HEIGHTWISE DISTRIBUTION OF STIFFNESS RATIO FOR OPTIMUM SEISMIC DESIGN OF STEEL FRAMES WITH METALLIC-YIELDING DAMPERS (EASEC12-225)
Saman Bagheri, Ali Hadidi, and Alireza Alilou (Dr. Saman BAGHERI)

SEISMIC ASSESSMENT OF BRACED RC FRAMES (EASEC12-303)
A Kadid and D.Yahiaoui (Dr. Abdelkrim KADID)

SVS2 : Structural Vibration and Stability II
28 Jan., 13:50 - 15:20 (N109)
Chairmen: Dr. Xingwen HE and Dr. Richard Kwok Kit YUEN

AN ANALYTICAL APPROACH TO COUPLED VIBRATION OF CURVED RATIONALIZED GIRDER BRIDGES AND RUNNING VEHICLES (EASEC12-723)
X He, Y Noda, T Hayashikawa, M Kawatani, and T Matsumoto (Mr. Yasuhide NODA)

DESIGN FORMULAS OF CONCRETE FILLED CIRCULAR STEEL TUBES REINFORCED BY CARBON FIBER REINFORCED PLASTIC SHEETS (EASEC12-756)
Jai-Woo, Park, Young-Kyun, Hong, Gi-Soup, Hong, Jin-Ho, Kim, and Sung-Mo, Choi (Dr. Jaiwoo PARK)

INTEGRAL EQUATION FOR SYMMETRICAL FREE VIBRATION OF LEVY-PLATE HAVING DISCONTINUOUS SIMPLE SUPPORTS (EASEC12-622)
S. Chaiyat and Y. Sompornjaroensuk (Dr. Sumitra CHAIYAT)

APPLICATION OF GENERALIZED SENATOR-BAPAT PERTURBATION TECHNIQUE TO NONLINEAR VIBRATION ANALYSIS OF FUNCTIONALLY GRADED BEAMS (EASEC12-464)
S.K. Lai, J. Harrington, and Y. Xiang (Prof. Y XIANG)

DYNAMIC TESTS ON A STEEL FRAME EQUIPPED WITH HYSTERETIC AND VISCO-RE-CENTRING ENERGY DISSIPATING SYSTEM (EASEC12-253)
A Di Cesare, FC Ponzo, and D Nigro (Prof. Felice PONZO)

ANALYTICAL SIMULATIONS FOR SHAKING TABLE TESTS OF A FULL SCALE BRBF (EASEC12-727)
YJ Yu, KC Tsai, CH Li, YT Weng, and CY Tsai (Mr. Yi-Jer YU)

ISD : Innovative Structural Design
28 Jan., 13:50 - 15:20 (N111)
Chairmen: Prof. Chun-Man CHAN

PARAMETRIC STRUCTURAL ANALYSIS FOR FREEFORM AND PARAMETRIC DESIGNS (EASEC12-773)
Chee Kyeong Kim, Sangsu Lee, and Hyunchul Choi (Prof. Kyeong Kim CHEE)

A GENETIC ALGORITHM BASED FORM-FINDING FOR TENSEGRITY STRUCTURE (EASEC12-278)
Manabu Yamamoto, Buntara Sthenly Gan, Kaori Fujita, and Junpei Kurokawa (Mr. Manabu YAMAMOTO)

THERMAL PERFORMANCE OF THE CAIRNLEA ECOHOME- A SUSTAINABLE HOUSE (EASEC12-422)
I Patnaikuni and S Rahman (Dr. Indubhushan PATNAIKUNI)

A NEW STIRRUP DESIGN CONSIDERING 3-D EFFECTS IN SHORT DEEP BEAMS (EASEC12-468)
YH Gedik, H Nakamura, N Ueda, and M Kunieda (Mr. YASAR HANIFI GEDIK)

OPTIMUM DEGREE OF BONE-IMPLANT CONTACT IN BONE REMODELLING INDUCED BY DENTAL IMPLANT (EASEC12-431)
Z. Q. Lian, H. Guan, and Y. C. Loo (Prof. Hong GUAN)

TOPOLOGY OPTIMIZATION OF COMPOSITE STRUCTURE USING BI-DIRECTIONAL EVOLUTIONARY STRUCTURAL OPTIMIZATION METHOD (EASEC12-595)
XF Sun, J Yang, YM Xie, XD Huang, and ZH Zuo (Mr. Xiangfeng SUN)

NSSD : Nonlinear Structures and Structural Dynamics
28 Jan., 15:40 - 17:10 (N101A)
Chairmen: Dr. Ching Tai NG

FLOW-INDUCED VIBRATION OF PIPELINE ON ELASTIC SUPPORT (EASEC12-251)
R. T. Faal and D. Derakhshan (Dr. Reza TEYMOORI FAAL)

THE EFFECT OF FLANGE THICKNESS ON THE BEHAVIOR OF FLANGED-SECTION SHEAR WALLS (EASEC12-195)
S. M. Khatami and A. Kheyroddin (Mr. Seyed Mohammad KHATAMI)

PARAMETRIC INVESTIGATIONS ON AN RC WALL MACRO MODEL (EASEC12-142)
F. Dashti, A. Jalali, and S. Malekpour (Mr. Farhad DASHTI)

EFFECT OF BEAM'S SUBASSEMBLIES GEOMETRY ON BEHAVIOR OF STEEL MOMENT CONNECTION (EASEC12-319)
Ardeshir Deylami and Alireza Zangouie (Prof. Ardeshir DEYLAMI)

EFFECT OF GEOMETRY OF VERTICAL RIB PLATE ON CYCLIC BEHAVIOR OF STEEL BEAM TO BUILT-UP BOX COLUMN MOMENT CONNECTION (EASEC12-415)
Ardeshir Deylami and Ali Reza Toloukian (Prof. Ardeshir DEYLAMI)

ACTIVE VIBRATION CONTROL OF AN FGM RECTANGULAR PLATE USING FUZZY LOGIC CONTROLLERS (EASEC12-670)
Ali Hossainnezhad Shirazi, Hamidreza Owji, and Mansour Rafeeyan (Mr. Ali HOSSAINNEZHAD)

SEISMIC RESPONSE OF BASE-ISOLATED STRUCTURES USING DCFP BEARINGS WITH TRI-LINEAR AND BI-LINEAR BEHAVIORS (EASEC12-786)
F. Khoshnoudian and A. Hemmati (Mr. Arash HEMMATI)

S13:SP3 : Seismic Performance of Lifelines and Industrial Facilities III
28 Jan., 15:40 - 17:10 (N101B)
Chairmen: Dr. Mehran Seyed RAZZAGHI and Dr. Eric WM LEE

INFLUENCE OF NANO PARTICLES ON DURABILITY AND MECHANICAL PROPERTIES OF HIGH PERFORMANCE CONCRETE (EASEC12-343)
Amir Hossein Shekari and Mehran Seyed Razzaghi (Dr. Mehran SEYED RAZZAGHI)

EVALUATION OF SEISMIC VULNERABILITY AND FAILURE MODES FOR PIPELINES (EASEC12-122)
Mohammad Reza Manshoori (Mr. Mohammad Reza MANSHOORI)

SEISMIC BEHAVIOR OF REINFORCED CONCRETE SILOS CONSIDERING GRANULAR MATERIAL-STRUCTURE INTERACTION (EASEC12-216)
Fariborz Nateghi and Mansoor Yakhchalian (Prof. Fariborz NATEGHI)

INTERACTION OF CONNECTED SINGLE-DEGREE-OF-FREEDOM SYSTEMS (EASEC12-261)
F. Nateghi and M. Yakhchallan (Ir. Ali TAHERI)

THE SEISMIC BEHAVIOR OF URBAN TUNNELS IN SOFT SATURATED SOILS (EASEC12-109)
M.Azadi (Dr. Mohammad AZADI)

SEISMIC PERFORMANCE OF RC ELEVATED WATER TANKS WITH FRAME STAGING AND EXHIBITION DAMAGE PATTERN (EASEC12-379)
Soheil Soroushnia, Sh. Tavousi Tafreshi, F. Omidinasab, N. Beheshtian, and Sajad Soroushnia (Dr. Shahriar TAVOUSI TAFRESHI)

S22:HD2 : Health Diagnosis and Prognosis of Civil Structures: New Development II
28 Jan., 15:40 - 17:10 (N104)
Chairmen: Dr. Yong XIA and Prof. Ying LEI

Session Keynote:
A TWO-STAGE KALMAN ESTIMATION APPROACH FOR THE IDENTIFICATION OF NONLINEAR STRUCTURAL PARAMETERS (EASEC12-561)
Y. Lei and Y.Q. Jiang (Prof. Ying LEI)

A SUBSTRUCTURING METHOD FOR MODEL UPDATING AND DAMAGE DETECTION (EASEC12-405)
Y Xia, S Weng, and YL Xu (Dr. Yong XIA)

APPLICATION OF RADIAL BASIS NEURAL NETWORK ON DAMAGE ASSESSMENT OF STRUCTURES (EASEC12-759)
Vivek Vallabhaneni and Damodar Maity (Dr. Damodar MAITY)

EVALUATING THE DAMAGE IN STEEL MRF UNDER NEAR FIELD EARTHQUAKES FROM A PERFORMANCE BASED DESIGN VIEWPOINT (EASEC12-666)
F.R. Rofooei and R. Imani (Prof. Fayaz R. ROFOOEI)

DAMAGE ASSESSMENT OF TRUSS DIAGONAL MEMBERS BASED ON FREQUENCY CHANGES IN LOCAL HIGHER MODES (EASEC12-339)
T. Yoshioka, M. Takahashi, H. Yamaguchi, and Y. Matsumoto (Mr. Tsutomu YOSHIOKA)

MULTI-TYPE SENSOR LOCATION SELECTION FOR STRUCTURAL HEALTH MONITORING (EASEC12-453)
Xiaohua Zhang, Songye Zhu, and Youlin Xu (Ms. Xiaohua ZHANG)

S09:DCT : Design and Construction in Tunneling
28 Jan., 15:40 - 17:10 (N106)
Chairmen: Dr. Kyung-Ho PARK and Dr. Johnny Chi Yin CHEUK

Session Keynote:
NUMERICAL SIMULATION OF STACKED TWIN-TUNNEL IN BANGKOK BLUE LINE SUBWAY (EASEC12-18)
VD Tran, P Kalayasri, JG Lee, and KH Park (Dr. Kyung-Ho PARK)

AN ANALYTICAL MODEL FOR PIPE-SOIL-TUNNELING INTERACTION (EASEC12-433)
Y. Wang, Q. Wang, and K. Y. Zhang (Dr. Yu WANG)

ESTIMATION OF DEGRADING PROCESS OF TUNNEL CONCRETE (EASEC12-167)
Osamu Maruyama, Atsushi Sutoh, Takashi Satoh, and Hiroaki Nishi (Prof. Osamu MARUYAMA)

BLAST-INDUCED DAMAGE IDENTIFICATION OF ROCK MASS USING WAVELET TRANSFORM ANALYSIS (EASEC12-412)
SW Lee, KH Park, and JG Lee (Dr. Seongwon LEE)

CRITICAL STRAIN CONCEPT-BASED SIMPLE METHOD FOR PRE-EVALUATION OF TUNNEL FACE SAFETY USING RMR (EASEC12-266)
Sung Bin Yim, Yong Seok Seo, Chang Yong Kim, and Kwang Yeom Kim (Dr. Sung-Bin YIM)

URBAN DEEP ROAD TUNNEL CONSTRUCTION PROJECT IN KOREA AND TECHNICAL REQUIREMENTS (EASEC12-267)
CY Kim, SB Yim, SH Jang, SW Lee, KY Kim, and KH Park (Dr. Chang Yong KIM)

EVALUATION OF THE IMPACTS OF DRILLING URBAN TUNNELS AS LIFELINES ON ADJACENT STRUCTURES (EASEC12-160)
M.Azadi and A.Zahedi (Dr. Mohammad AZADI)

FINITE ELEMENT SEISMIC ANALYSIS OF CYLINDRICAL TUNNEL IN SANDY SOILS WITH CONSIDERATION OF SOIL-TUNNEL INTERACTION (EASEC12-410)
Mohsen Saleh Asheghabadi and Hossein Matinmanesh (Mr. Mohsen SALEH ASHEGHABADI)

TBM PERFORMANCE AND DEVELOPMENT STATE IN KOREA (EASEC12-155)
Seong-Won Lee, Soo-Ho Chang, Kyung-Ho Park, and Chang-Yong Kim (Dr. Sooho CHANG)

CMS4 : Composite Materials/Structures IV
28 Jan., 15:40 - 17:10 (N107)
Chairmen: Dr. Yufei WU

PERFORMANCE OF EBROG METHOD UNDER MULTILAYER FRP SHEETS FOR FLEXURAL STRENGTHENING OF CONCRETE BEAMS (EASEC12-382)
Davood Mostofinejad and Masoud Shameli (Mr. Seyed Masoud SHAMELI)

ESTIMATING THE BEHAVIOR OF FRP-STRENGTHENED RC STRUCTURAL MEMBERS USING ARTIFICIAL NEURAL NETWORKS (EASEC12-388)
H. Naderpour, A. Kheyroddin, G. Ghodrati Amiri, and S.R. Hoseini Vaez (Mr. Hosein NADERPOUR)

FIBER VOLUME FRACTION AROUND STITCH IN NCF COMPOSITES (EASEC12-547)
V Yavari and MH Kadivar (Mr. Vahid YAVARI)

FGM MATERIALS AND FINDING AN APPROPRIATE MODEL FOR THE THERMAL CONDUCTIVITY (EASEC12-177)
Ali bakhsh Kasaeian, Shahin Nasiri Vatan, and Sina Daneshmand (Dr. Ali Bakhsh KASAEIAN)

BEHAVIOR AND CHARACTERISTICS OF INNOVATIVE COMPOSITE PLATE SHEAR WALLS (EASEC12-641)
Alireza Rahai and Mohamad Alipour (Mr. Mohamad ALIPOUR)

EE6 : Earthquake Engineering VI
28 Jan., 15:40 - 17:10 (N108)
Chairmen: Dr. Heung Fai LAM

AN INVESTIGATION INTO RECOMMENDATIONS OF NZSEE FOR SEISMIC ASSESSMENT OF STEEL MOMENT RESISTING FRAMES (EASEC12-359)
Mohsen Tehranizadeh and Masood Yakhchalian (Prof. Mohsen TEHRANIZADEH)

SEISMIC ASSESSMENT OF GRAVITY QUAY-WALL STRUCTURES, SUBJECTED TO NEAR-FAULT GROUND EXCITATIONS (EASEC12-375)
Mostafa Zeinoddini, Farid Ahmadpour, and Hamid Matin Nikoo (Mr. Hamid MATIN NIKOO)

DETERMINATION OF BEHAVIOR COEFFICIENT OF PREFABRICATED CONCRETE FRAME WITH PREFABRICATED SHEAR WALLS (EASEC12-377)
Morteza Madhkhan and Majid Divan (Mr. Majid DIVAN)

APPLICATION OF ENDURANCE TIME METHOD IN NONLINEAR SEISMIC ANALYSIS OF STEEL FRAMES (EASEC12-602)
H. T. Riahi, H. E. Estekanchi, and S. Seyedain Boroujeni (Dr. Hossein TAJMIR RIAHI)

SEISMIC RESPONSE OF BASE-ISOLATED STRUCTURES WITH LRB AND FPS UNDER NEAR FAULT GROUND MOTIONS (EASEC12-373)
M.K. Sharbatdar, S.R. Hoseini Vaez, G. Ghodrati Amiri, and H. Naderpour (Mr. Seyed Rohollah HOSEINI VAEZ)

MODIFICATION OF MOMENT CONNECTION OF I-BEAM TO DOUBLE-I BUILT-UP COLUMN BY REINFORCING COLUMN COVER PLATE (EASEC12-428)
A Deylami and M Gholipour (Prof. Ardeshir DEYLAMI)

NUMERICAL ANALYSIS OF BURIED PIPELINES WITH RIGHT ANGLE ELBOW UNDER WAVE PROPAGATION (EASEC12-619)
M. Saberi, H. Arabzadeh, and A. Keshavarz (Mr. Hamid ARABZADEH)

SVS3 : Structural Vibration and Stability III
28 Jan., 15:40 - 17:10 (N109)
Chairmen: Dr. Bing LI and Dr. Richard Kwok Kit YUEN

Session Keynote:
IMPACT RESPONSE OF REINFORCED CONCRETE BEAM AND ITS ANALYTICAL EVALUATION (EASEC12-526)
Kazunori Fujikake and Bing Li (Dr. Bing LI)

ANALYSIS OF SMART LAMINATED COMPOSITES EMPLOYING PIEZO EMBEDDED SUPER ELEMENT (EASEC12-760)
D. K. Maiti and P. K. Sinha (Dr. Dipak K. MAITI)

NATURAL CONVECTION IN A PV-INTEGRATED DOUBLE-SKIN FAÇADE USING LARGE-EDDY SIMULATION (EASEC12-797)
GE Lau, GH Yeoh, V Timchenko, and RKK Yuen (Dr. Richard Kwok Kit YUEN)

FLOOR VIBRATION DUE TO HUMAN RHYTHMIC ACTIVITIES: TIN SHUI WAI PUBLIC LIBRARY CUM INDOOR RECREATION CENTRE (EASEC12-80)
W. W. Li, C. T. Wong, M. K. Leung, and S. C. Fung (Ir. MK LEUNG)

FORCED VIBRATION OF EDGE-CRACKED FUNCTIONALLY GRADED BEAMS DUE TO A TRANSVERSE MOVING LOAD (EASEC12-565)
Ting Yan and Jie Yang (Dr. Jie YANG)

EFFECTIVENESS OF HORIZONTAL STIRRUPS IN JOINT CORE FOR EXTERIOR BEAM-COLUMN JOINTS WITH NONSEISMIC DESIGN (EASEC12-765)
JS Kuang and HF Wong (Mr. H. F. WONG)

RESPONSE OF VERTICAL WALL STRUCTURES UNDER BLAST LOADING BY DYNAMIC ANALYSIS (EASEC12-545)
TP Nguyen and MT Tran (Mr. MINH THI TRAN)

ANALYSIS AND DESIGN OF DISTURBED REGIONS IN CONCRETE STRUCTURES. (EASEC12-475)
Attaylllah Shah, Ehsanul Haq,and Salimullah Khan (Dr. Attaullah SHAH)

NADM : New Analysis and Design Methods
28 Jan., 15:40 - 17:10 (N111)
Chairmen: Dr. WH FOK

INVESTIGATION ON THE SEISMIC BEHAVIOR OF STEEL MRF WITH SHAPE MEMORY ALLOY EQUIPPED CONNECTIONS (EASEC12-665)
Fayaz Rofooei and Alireza Farhidzadeh (Prof. Fayaz R. ROFOOEI)

SEISMIC PERFORMANCE EVALUATION OF STEEL MOMENT-RESISTING FRAMES USING IRANIAN, EUROPEAN AND JAPANESE SEISMIC CODES (EASEC12-294)
S. Malekpour , P. Seyyedi , F. Dashti, and J. Fallah Asghari (Mr. Saleh MALEKPOUR)

ANALYSIS AND DESIGN OF STEEL PLATE SHEAR WALLS USING ORTHOTROPIC MEMBRANE MODEL (EASEC12-323)
Ardeshir Deylami and Javad Rowghani-Kashani (Mr. Javad ROWGHANI KASHANI)

CRASHWORTHINESS DESIGN FOR CYLINDRICAL TUBE USING NEURAL NETWORK AND GENETIC ALGORITHM (EASEC12-520)
M. Mirzaei, M.Shakeri, M.Sadighi, and H.Akbarshahi (Prof. Mahmoud SHAKERI)

DIRECT DISPLACEMENT BASED DESIGN OF REGULAR STEEL MOMENT RESISTING FRAMES (EASEC12-193)
S. Malekpour, H. Ghaffarzadeh, and F. Dashti (Mr. Saleh MALEKPOUR)

Memory

Nishino Medal and Prize 2011

During the period 1984–1985, Professor Fumio Nishino (1936-2007) and his colleagues at the Asian Institute of Technology established the organizational structure for the East Asia-Pacific Conference series on Structural Engineering and Construction (EASEC), an initiative that led to the first EASEC conference in Bangkok in January 1986. In the subsequent two decades EASEC has become a premier conference series having to date 10 conferences held in different cities in Asia. His contributions in founding and promoting EASEC had been enormous and the success of EASEC was heavily due to his enthusiastic and ceaseless efforts. In addition, he had worked actively and successfully in promoting the discipline of structural engineering and construction in the Asia region and beyond.

In recognition of his efforts, initiatives and achievements, the EASEC International Steering Committee proposes to establish two medals in the honor of Prof. Nishino, so that henceforth he will be remembered formally by the EASEC community every time the Conference is held. The awards and commendations will be made in two categories as follows:

The Nishino Medal: to be awarded at each future EASEC conference to a distinguished senior engineer who has been judged to have made internationally recognized contributions in the area of structural engineering and construction through research, development and/or professional practice in the Asia-Pacific region. The first awardee (2008) is Professor Worsak Kanok-Nukulchai, Thailand.

The Nishino Prize: to be awarded concurrently at each future EASEC conference to a young engineer (age below 45 years) from the Asia-Pacific region who has made significant contributions and shown potential for great future achievements in the area of structural engineering and construction through research, development and/or practice. The first winners (2008) are Professor Xu Hui An, China and Mr. Chi-Heng Chiang, Taiwan.

The award and prize will be presented during the opening ceremony of EASEC12, Hong Kong in January 26-28, 2011.

Arthur CHIU Memorial Lecture, ACML

Professor Arthur N.L. Chiu, Ph.D., P.E.
(1929-2006)

Arthur N. L. Chiu was a strong advocate and supporter of EASEC's ideals of promoting the exchange of information and knowledge among structural and construction engineering professionals in East Asia. Dr. Chiu served on EASEC's International Steering Committee from its inception in 1984 until his untimely passing in 2006, and continually contributed to EASEC with his counsel, vision and friendship. He fostered initial ties with many of EASEC's original organizers and participants when he was a professor at the Asian Institute of Technology from 1966-68.

Professor Chiu was a world recognized expert in wind-engineering and structural dynamics having spent his entire career studying wind effects on full-scale structures and mitigating the effects of wind events. His interest in full-scale wind engineering began during his PhD work in which he studied wind hazard (characterizing the wind environment on structures), the response of a latticed steel tower to wind hazard and compared the results with design codes, creating a framework that continues to be used today.

Dr. Chiu had the opportunity to perform full-scale investigations on such noted structures as U.S. Navy antenna (800 to 1,000 feet) in Cutler, Maine (USA), the old Shanghai Television Tower and Taipower towers on Taiwan. In addition to his full-scale investigations, Dr. Chiu worked on unique wind projects such as wind analyses on the original concept design of the U.S. Space Shuttle. In his later years, he devoted his efforts to advocating the reduction of wind-induced damage through better engineering and construction practices, and served as a member and president of the Applied Technology Council as a means to promote mitigation efforts across all hazards.

Dr. Chiu was a supporter of sharing knowledge and information across national boundaries. To promote such communication, he organized conferences and workshops in India, Thailand, Indonesia, Japan and Hawaii for the purpose of bring persons with different experiences and cultures together to collaborate on studying natural hazards and their effects on the built environment.

Dr. Chiu was born in Singapore and moved to the US to attend university. He received B.S and B.A. degrees from Oregon State University, his M.S. from the Massachusetts Institute of Technology and his Ph.D. from the University of Florida. He was licensed as both Professional Civil Engineer and Structural Engineer in the State of Hawaii. He began his teaching career in 1954 as an Instructor at the University of Hawaii, retiring as a Professor in 1995. During the intervening years, he also spent time at the Asian Institute of Technology as Professor and Chairman of the Structures Division.

Information about Hong Kong

General Information

Local Currency

The local currency is Hong Kong Dollars (HK$). The HK Dollar exchange rate is pegged with the US Dollar at about US$1 = HK$7.8. You may exchange most international currencies at the money exchange outlets inside the airport terminals, licensed money exchanges in town, or at local banks.

Dialing Code

+852 is the dialing code of Hong Kong

Local phone cards are easily available from convenience stores at the airport, MTR stations, or in shopping centers.

Time Zone

Hong Kong is 8 hours ahead of Greenwich Mean Time (GMT)

Electricity

The electricity supply in Hong Kong is in the form of Alternating Current (AC) at a frequency of 50 Hertz. For domestic customers the voltage supplied is either 220 volts single phase or 220/380 volts 3 phase 4 wires. The power supply is reliable.

The standard plug is the British-style rectangular blade 3-pin plug, but older buildings may still have 3-pin, round plugs, both small and large. Two-pin round plugs are used for bathroom appliances like shavers or toothbrushes.

Weather in January

Average low temperature: 14.1°C

Average high temperature: 18.6°C

Rainfall: 24.9mm

Humidity: 73%

Check the Hong Kong Observatory website www.hko.gov.hk for up to the minute forecasts.

Credit Cards

All the major credit cards (Visa, MasterCard, American Express) are accepted in hotels, and in most restaurants and shops

Bank Service

Monday to Friday 9:00 to 17:00

Saturday 9:00 to 13:00 (some will open on Saturday afternoons)

Shopping Hours

Most shops open daily from 10:00 or 11:00 to 22:00. Some shops will stay open or close later.

Tips and Taxes

Hotels: service (10%) and prevailing government tax (if applicable) are usually included. There is no sales tax in Hong Kong.

Restaurants: service (10%) is usually included in most restaurants (extra tipping is at your discretion depending on service received. Otherwise, tipping would usually be 10-15% of your bill)

Emergency

Police/Ambulance/Fire: Call 999

Transportation

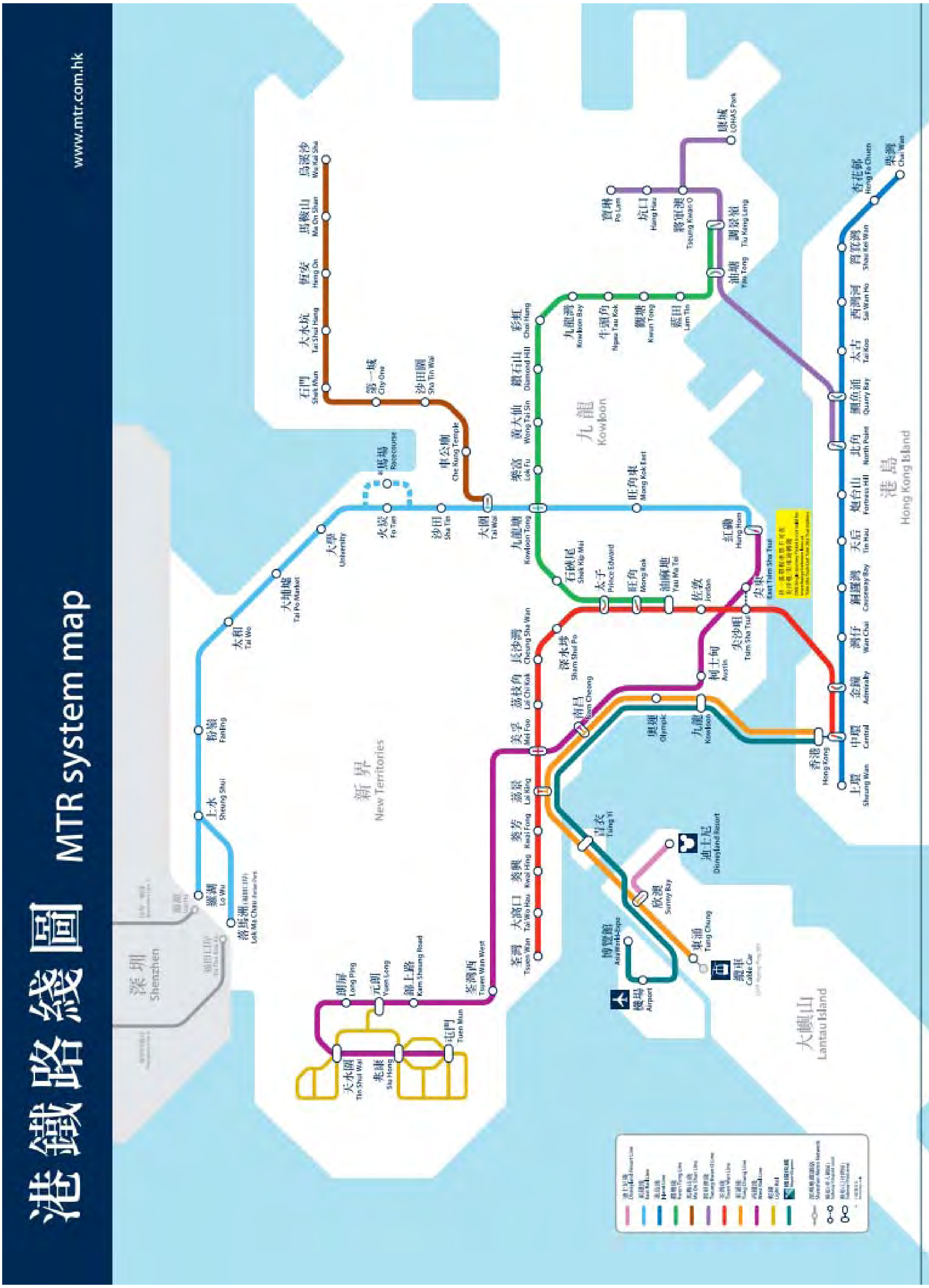
Bus: There are several bus companies operating in Hong Kong, every bus has a bus route number and a destination clearly displayed in the front of the buses. As long as it is the right number of bus you do not have to concern which company bus you get onto, all have good standard of service and cleanliness. However, you do need to know whether it is the right direction of bus. For more information please check on-line: http://www.kmb.hk, http://www.nwstbus.com.hk

Taxi: All are metered, runs 24-hr everywhere in Hong Kong, can take maximum 4-5 passengers. Simply wave at an empty taxi at a non-restricted area and the taxi will stop for you. There are 3 types of taxis, urban taxi (red), New Territories taxi (green), and Lantau taxi (blue) they have different charging rate. Note that an urban taxi can take you to the New Territories, but a New Territories taxi cannot leave the New Territories, and a Lantau taxi cannot leave the Lantau Island.

Airport Express: Train service connects Chek Lap Kok Airport with Kowloon and Hong Kong, also connects with the MTR so tourists can reach their destinations easily. You can also check-in at either the Hong Kong or Kowloon Station. For more information please check on-line:

http://www.mtr.com.hk/chi/airport_express/timetable_index.html

MTR: MTR runs from early morning till mid-night (different stations might have slightly different operation times), and is the most convenient public transportation in Hong Kong. There are tickets for tourists, which allow unlimited rides within a single day. However, if your itinerary requires multiple days of MTR rides, and not too many times per day, buying an Octopus card is much more handy. Don't forget to have the remaining value refunded before you leave Hong Kong. For more information please check on-line: http://www.mtr.com.hk/


港鐵路綫圖 MTR system map
www.mtr.com.hk
深圳 Shenzhen
新界 New Territories
九龍 Kowloon
港島 Hong Kong Island
大嶼山 Lantau Island
羅湖 Lo Wu
落馬洲 Lok Ma Chau
上水 Sheung Shui
粉嶺 Fanling
太和 Tai Wo
大埔墟 Tai Po Market
大學 University
火炭 Fo Tan
馬場 Racecourse
沙田 Sha Tin
大圍 Tai Wai
九龍塘 Kowloon Tong
旺角東 Mong Kok East
紅磡 Hung Hom
烏溪沙 Wu Kai Sha
馬鞍山 Ma On Shan
恆安 Heng On
大水坑 Tai Shui Hang
石門 Shek Mun
第一城 City One
沙田圍 Sha Tin Wai
車公廟 Che Kung Temple
樂富 Lok Fu
黃大仙 Wong Tai Sin
鑽石山 Diamond Hill
彩虹 Choi Hung
九龍灣 Kowloon Bay
牛頭角 Ngau Tau Kok
觀塘 Kwun Tong
藍田 Lam Tin
油塘 Yau Tong
調景嶺 Tiu Keng Leng
將軍澳 Tseung Kwan O
坑口 Hang Hau
寶琳 Po Lam
康城 LOHAS Park
石硤尾 Shek Kip Mei
太子 Prince Edward
旺角 Mong Kok
油麻地 Yau Ma Tei
佐敦 Jordan
尖沙咀 Tsim Sha Tsui
尖東 East Tsim Sha Tsui
柯士甸 Austin
荃灣 Tsuen Wan
大窩口 Tai Wo Hau
葵興 Kwai Hing
葵芳 Kwai Fong
荔景 Lai King
美孚 Mei Foo
荔枝角 Lai Chi Kok
長沙灣 Cheung Sha Wan
深水埗 Sham Shui Po
南昌 Nam Cheong
奧運 Olympic
九龍 Kowloon
青衣 Tsing Yi
欣澳 Sunny Bay
迪士尼 Disneyland Resort
東涌 Tung Chung
纜車 Cable Car
機場 Airport
博覽館 AsiaWorld-Expo
屯門 Tuen Mun
兆康 Siu Hong
天水圍 Tin Shui Wai
朗屏 Long Ping
元朗 Yuen Long
錦上路 Kam Sheung Road
荃灣西 Tsuen Wan West
上環 Sheung Wan
中環 Central
香港 Hong Kong
金鐘 Admiralty
灣仔 Wan Chai
銅鑼灣 Causeway Bay
天后 Tin Hau
炮台山 Fortress Hill
北角 North Point
鰂魚涌 Quarry Bay
太古 Tai Koo
西灣河 Sai Wan Ho
筲箕灣 Shau Kei Wan
杏花邨 Heng Fa Chuen
柴灣 Chai Wan

Travel Information

Lan Kwai Fong 蘭桂坊

- This delightful L-shaped cobblestone road between D'aguilar Street and Wyndham Street is home to an inviting collection of lively restaurants, delicatessens and bars. One of Hong Kong's trendiest nightlife areas, LKF remains a magnet for both tourists and locals, attracting thousands of visitors to its regular Halloween, Christmas Day and New Year's Eve street carnivals.
- **How To Get There:** MTR Central Station Exit D2 → 5 minutes walk from station
- http://www.lkfe.com

Hong Kong Disneyland 香港迪士尼樂園

- You'll discover whimsical worlds of imagination here, where enchanting stories and timeless settings come to life before your eyes.
- **How To Get There:** MTR Disneyland Resort Station Exit A
- **Opening Hours:** 10am – 7pm
- http://park.hongkongdisneyland.com

Ocean Park 海洋公園

- With more than 40 attractions inside the Park, providing you with memorable experience. You can ride on the cable cars and enjoy the heart throbbing rides, or you may discover over 2,000 fishes from 250 species at the world-class Atoll Reef Aquarium.
- **How To Get There:** MTR Admiralty Station Exit B → Citybus Route 629 (9am – 4pm, every 10 min).
- **Opening Hours:** Ocean Park open 10am – 6pm including Sun & Public Holiday
- http://www.oceanpark.com.hk

The Peak 山頂

- Take in the panoramic views of Victoria Harbour from the Peak. It is marvellous. You can also enjoy a lovely dinner and the beautiful night view there.
- **How To Get There:** MTR Central Station Exit J2 → 15 minutes from station to the Lower Peak Tram Terminal on Garden Road.
- **Opening Hours:** The Peak Tram operates 7am to 12 midnight (Mon – Sun & Public Holiday.
- http://www.thepeak.com.hk

Temple Street Market 廟街市集

- Probably the best-known outdoor market in Asia, Temple Street is renowned for its night market. Starting from 7 pm nightly, the Market is a must for bargain hunters and offers genuinely astonishing variety and value for money. Here, stalls selling stylish clothing, cosmetics and useful household items nestle side-by-side with Dai Pai Dong food stalls offering tasty local seafood and other culinary favourites. Fortune-tellers, professional chess players and Chinese Opera performers are among the many others for whom Temple Street is a home from home.
- **How To Get There:** MTR Jordan Station Exit A → 10 minutes walk from station.
- **Opening Hours:** Open from 4pm to midnight, but really comes alive after sunset.

Ladies' Market 女人街

- The Tung Choi Street Ladies' Market between Argyle Street and Dundas Street is popular with both local and tourist shoppers. Its many stalls contain an amazing array of women's clothing, cosmetics, and accessories at bargain prices.
- **How To Get There:** MTR Mong Kok Station Exit D3 → 3 minutes walk from station.
- **Opening Hours:** Open from noon until 11:30pm

Hong Kong Space Museum 香港太空館

- Hong Kong's magnificent Space Theatre is home of one of the world's largest planetariums and offers engrossing Omnimax screenings and Sky shows several times daily.
- **How To Get There:** MTR Tsim Sha Tsui Station Exit C1 or E → 6 minutes walk from station.
- **Opening Hours:** 1pm – 9pm (Mon, Wed, Thu, Fri), 10am – 9pm (Sat, Sun & Public Holiday)
- http://www.lcsd.gov.hk/CE/Museum/Space/

Avenue of Stars 星光大道

- See Hong Kong's many magical movie legends come to glorious life at Asia's first Avenue of Stars on the Tsim Sha Tsui promenade. The headlining attractions include plaques and other memorabilia honouring not only the stars of the silver screen, but also the directors and producers who first put their names in lights.
- **How To Get There:** MTR Tsim Sha Tsui Station Exit J → 5 minutes walk from station.
- http://www.avenueofstars.com.hk/

A Symphony of Lights 幻彩詠香江

- This spectacular multimedia display, already named the "World's Largest Permanent Light and Sound Show" by Guinness World Records, has been further expanded to include more than 40 buildings on both sides of Victoria Harbour.
- **How To Get There:** MTR Tsim Sha Tsui Station → Along the Tsim Sha Tsui waterfront between the Avenue of Stars and the Hong Kong Cultural Centre.
- **Opening Hours:** Nightly at 8pm
- http://www.tourism.gov.hk/symphony/

Ngong Ping 360 / Tian Tan Buddha Statue 昂坪 360 / 天壇大佛

- Combines a stunning 25 minute cable car journey between Tung Chung and Ngong Ping with a culturally themed village. Ngong Ping Village offers a variety of dining and shopping experiences and three themed attractions "Walking with Buddha", "Monkey's Tale Theatre" and "Ngong Ping Tea House", including easy access to the world's tallest, outdoor, seated bronze Tian Tan Buddha Statue.
- **How To Get There:** MTR Tung Chung Station Exit B → Tung Chung Cable Car Terminal.
- **Opening Hours:** 10am – 6pm (Weekdays), Weekends & Public Holiday (9am – 6:30pm)
- http://www.np360.com.hk/

Lei Yue Mun Seafood Bazaar 鯉魚門 (三家村碼頭)

- Famous for its seafood, the Bazaar is ideal for a night out with family and friends. You can choose your own fresh seafood and decide how you'd like it prepared.
- **How To Get There:** MTR Yau Tong Station Exit A2 → Take Green mini-Bus No 24 to Sam Ka Tsuen Ferry Pier

Hong Kong Museum of History 香港歷史博物館

- Offering unrivalled insights into Hong Kong's dynamic character and rich past traditions, the many unique artefacts and displays on show at this fascinating museum are a must-see for all who cherish history.
- **How To Get There:** MTR Tsim Sha Tsui Station Exit B2 → 10 minutes walk from station.
- **Opening Hours:** 10am – 6pm (Mon & Wed to Sat), 10am – 7pm (Sun & Public Holiday)
- http://hk.history.museum/index.php

Kowloon Walled City Park 九龍寨城公園

- In 1995, Kowloon's historic Walled City was transformed into this tranquil inner city haven. Built in the classical Jiangnan style, the Park offers many must-see attractions. They include authentic stone plaques from the original Walled City's South Gate, a Chinese Zodiac Garden, and a pre-war Hill Top Pavilion.
- **How To Get There:** MTR Lok Fu Station Exit B → 20 minutes walk from station.
- **Opening Hours:** 6:30am – 11pm, Exhibitions room opens daily from 10am to 6pm (Closed on every Wednesday)
- http://www.lcsd.gov.hk/parks/kwcp/en/index.php

Sam Tung Uk Museum 三棟屋博物館

- Sam Tung Uk Museum is a 200-year old rural walled village, Sam Tung Uk Museum features displays of period furniture, handicrafts and agricultural equipment.
- **How To Get There:** MTR Tsuen Wan Station Exit B3 → 5 minutes walk from station.
- **Opening Hours:** 9am – 5pm daily

SoHo East 蘇豪東

- Located immediately to the east of Lei King Wan in Sai Wan Ho, SoHo East is justifiably renowned for its breathtaking sea views. Serving superlative Chinese cuisine in a relaxed, European-style ambience, the area's many restaurants regularly feature in many local movies and TV shows.
- **How To Get There:** MTR Sai Wan Ho Station Exit A → 15 minutes walk from station.
- http://www.sohoeast.com.hk/

Useful Phone Numbers & Links

- **Discover Hong Kong – Official Travel Guide**

  http://www.discoverhongkong.com/eng/

- **Hong Kong International Airport**

  http://ww.hongkongairport.com/

  Tel: +852 2181 8888

- **Immigration Department**

  http://www.immd.gov.hk/

  Tel: +852 2824 6111