

The 8th International Conference on Steel and Aluminium Structures

7 – 9 December 2016

Hong Kong, China

Conference Program



THE UNIVERSITY OF HONG KONG

Organised by:



**Department of Civil Engineering
The University of Hong Kong**

Supported by:

**Joint Structural Division of
The Hong Kong Institution of Engineers & The Institution of Structural Engineers**



*The Institution
of Structural
Engineers*



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Front: HSBC Building, Hong Kong, China

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Printed in Hong Kong



Welcome Message

On behalf of the local organising committee, it is our pleasure to welcome you all to the 8th International Conference on Steel and Aluminium Structures (ICSAS) in 2016. In the past 29 years, 7 International Conferences have been successfully held in, Kuching, Malaysia (2011), Oxford, UK (2007), Sydney, Australia (2003), Helsinki, Finland (1999), Istanbul, Turkey (1995), Singapore (1991), Cardiff, UK (1987). We welcome you all to Hong Kong for the ICSAS 2016.

The conference is considered the principal showcase for steel and aluminium structures and one of the prime international forums for discussion of research, development and applications in this field. This conference has attracted 152 papers from 29 countries and 6 continents. We wish to express our sincere gratitude to all the presenting authors and participants whose contributions have made this conference possible. Hope you will have a pleasant stay and fruitful exchange in Hong Kong. Thank you for your support and looking forward to meet you all at the 9th International Conference on Steel and Aluminium Structures.

Ben Young
ICSAS 2016 Conference Chairman
December 2016

International Scientific Committee:

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Local Organising Committee:

Chairman:

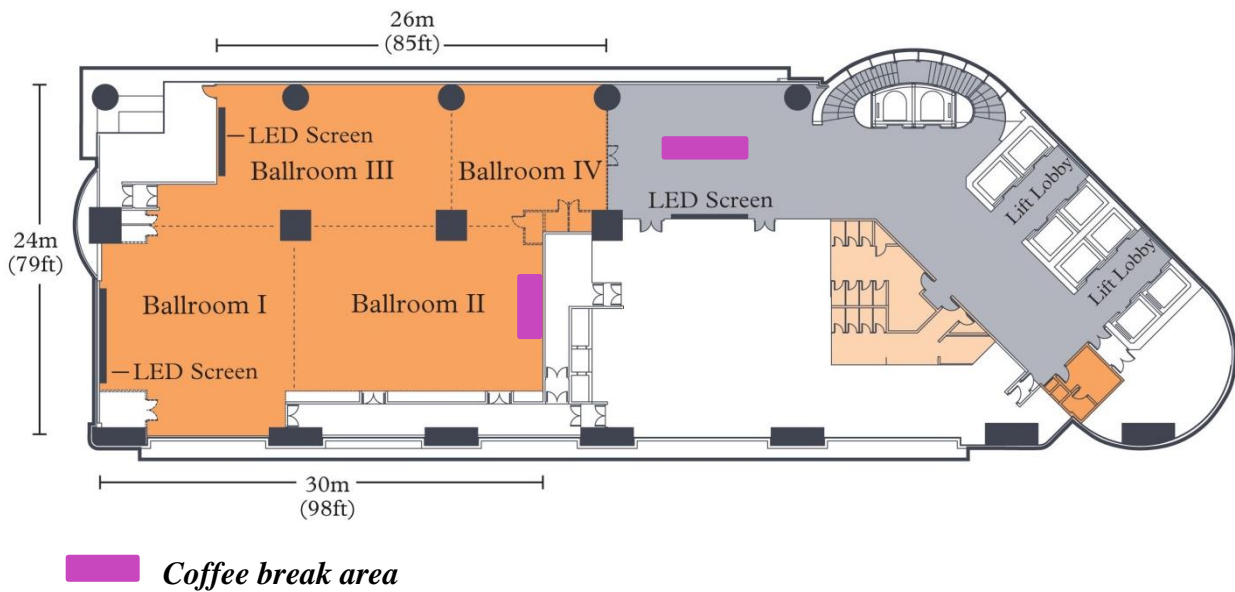
B. Young	The University of Hong Kong	China
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Members:

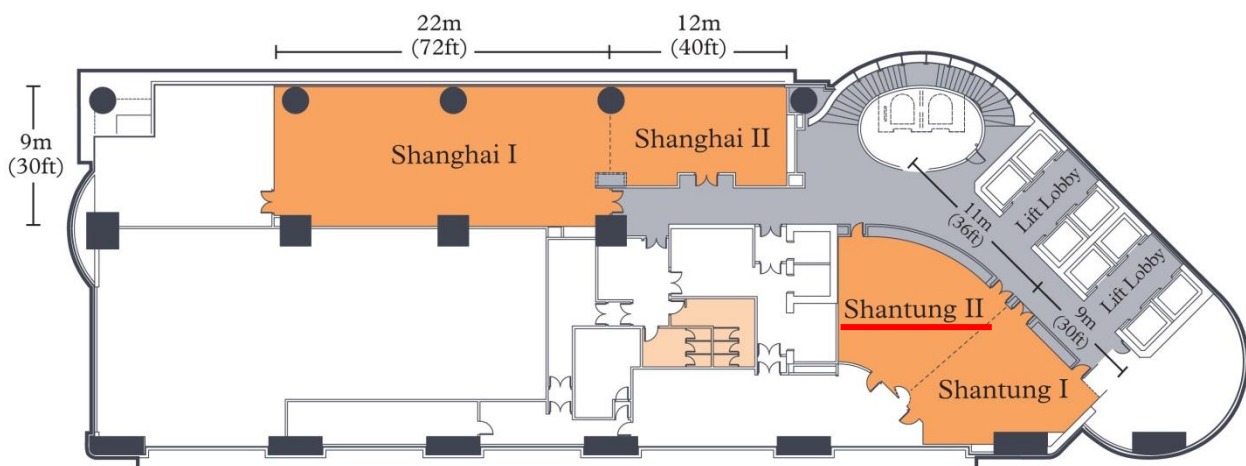
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F. Zhou	Tongji University	China
J.H. Zhu	Shenzhen University	China

Location of Conference Rooms

The Ballroom (Level 7)



Shanghai & Shantung Rooms (Level 8)



Free WIFI

You can enjoy free WIFI at the conference hotel (Cordis Hotel).

Step 1: Select “Cordis” as your connection network;

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Step 3: Click “Connect” to confirm all terms and conditions;

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Conference Program Overview

The 8th International Conference on Steel and Aluminium Structures (ICSAS 2016)
Cordis Hotel, 555 Shanghai Street, Mong Kok, Kowloon, Hong Kong

6 December 2016 (Tuesday)				
17:00 – 21:00	Welcome Reception Dinner & Laboratory Tour at the University of Hong Kong			
7 December 2016 (Wednesday)				
	Ballrooms I & II (Level 7 of Cordis Hotel)			
7:30 – 8:30	Registration & Morning Coffee			
8:30 – 9:00	Opening Ceremony			
9:00 – 10:30	Keynote Presentation			
10:30 – 11:00	Coffee Break			
	Ballrooms I & II (Level 7)	Ballroom III (Level 7)	Shantung II (Level 8)	
11:00 – 12:30	Parallel Session W1A: Braced Frames	Parallel Session W1B: Composite Columns	Parallel Session W1C: Structural Stability I	
12:30 – 14:00	Lunch at Star Room (Level 42 of Cordis Hotel) ### Two Michelin Stars Chef Team ###			
14:00 – 15:15	Parallel Session W2A: Connections I	Parallel Session W2B: Advanced Structural Engineering I	Parallel Session W2C: Tubular Joints	
15:15 – 15:45	Coffee Break			
15:45 – 17:00	Parallel Session W3A: Beams I	Parallel Session W3B: Composite Connections	Meeting	
8 December 2016 (Thursday)				
	Ballrooms I & II (Level 7)			
8:15 – 9:00	Registration & Morning Coffee			
9:00 – 10:30	Keynote Presentation			
10:30 – 11:00	Coffee Break			
	Ballrooms I & II (Level 7)	Ballroom III (Level 7)	Shantung II (Level 8)	
11:00 – 12:30	Parallel Session T1A: Columns	Parallel Session T1B: Composite Beams & Beam- columns	Parallel Session T1C: Trusses, Bridges and Towers	
12:30 – 14:00	Lunch at The Place (Lobby Level)			
14:00 – 15:15	Parallel Session T2A: Columns & Built-up Sections	Parallel Session T2B: Shear Connectors	JCSR Meeting	
15:15 – 15:45	Coffee Break			
15:45 – 16:30	Parallel Session T3A: Beams II	Parallel Session T3B: Advanced Structural Engineering II	Parallel Session T3C: Material Properties	
18:00 – 21:30	Conference Banquet*			
9 December 2016 (Friday)				
	Ballrooms I & II (Level 7)			
8:15 – 9:00	Registration & Morning Coffee			
9:00 – 10:30	Keynote Presentation			
10:30 – 11:00	Coffee Break			
	Ballrooms I&II (Level 7)	Ballroom III (Level 7)	Shantung II (Level 8)	Ballroom IV (Level 7)
11:00 – 12:30	Parallel Session F1A: Girders	Parallel Session F1B: Composite Members under Extreme Loading Conditions	Parallel Session F1C: Structural Stability II	Parallel Session F1D: Web Crippling
12:30 – 14:00	Lunch at Star Room (Level 42)			
14:00 – 15:15	Parallel Session F2A: Beams III	Parallel Session F2B: Composite Members Strengthening	Parallel Session F2C: Cyclic Loadings	Parallel Session F2D: Extreme Loading Conditions I
15:15 – 15:45	Coffee Break			
15:45 – 17:00	Parallel Session F3A: Connections II	Parallel Session F3B: Composite Slabs & Trusses	Parallel Session F3C: Scaffolds & Frames	Parallel Session F3D: Extreme Loading Conditions II
P.S. All events will be held at Cordis Hotel, except Conference Banquet will be held at Serenade Chinese Restaurant, 4/F, Hong Kong Cultural Centre, Restaurant Block, Tsim Sha Tsui, Kowloon.				
*Coach departs at 17:30 from Carpark Level B2 (Basement 2) of the Cordis Hotel.				

Conference Program

7 December 2016 (Wednesday)	
	<i>Ballrooms I & II (Level 7 of Cordis Hotel)</i>
7:30 – 8:30	Registration & Morning Coffee
8:30 – 9:00	Opening Ceremony Opening Address <i>Professor Ben YOUNG</i> <i>ICSAS 2016 Conference Chairman, The University of Hong Kong</i> Welcoming Address <i>Professor T S Andy Hor</i> <i>Vice-President and Pro-Vice-Chancellor, The University of Hong Kong</i> Group Photo
9:00 – 10:30	Keynote Presentation Co-Chair: Reidar BJORHOVDE; Co-Chair: Guo-Qiang LI THE DIRECT DESIGN METHOD FOR COLD-FORMED STEEL STRUCTURAL FRAMES [1] <i>Kim J.R. RASMUSSEN, Hao ZHANG, Francisco de Sena CARDOSO and Wenyu LIU</i> RATIONAL DIRECT STRENGTH METHOD DESIGN OF ANGLE COLUMNS: A NOVEL SOLUTION FOR AN OLD PROBLEM [2] <i>Dinar CAMOTIM, Pedro B. DINIS and Alexandre LANDESMANN</i> THE CONTINUOUS STRENGTH METHOD FOR STEEL, STAINLESS STEEL AND ALUMINIUM STRUCTURAL DESIGN [3] <i>Leroy GARDNER</i>
10:30 – 11:00	Coffee Break
	<i>Ballrooms I & II (Level 7)</i>
11:00 – 12:30	Parallel Session W1A: Braced Frames Co-Chair: Stefan HERION; Co-Chair: Robert G. BEALE VIBRATION TEST AND FINITE ELEMENT MODELING OF A STEEL FRAME SUPPORTED STANDING SEAM METAL ROOF PANEL [76] <i>J. HU, T.H. CHUI and H.F. LAM</i> CONSIDERATION OF IMPERFECTIONS IN SPECIAL CONCENTRICALLY BRACED FRAMES [77] <i>Zuo-Lei DU, Yao-Peng LIU and Siu-Lai CHAN</i> APPLICATION OF MAGNETO-RHEOLOGICAL DAMPERS IN CONCENTRICALLY BRACED FRAMES [78] <i>C. VULCU and D. DUBINA</i> DEVELOPMENT OF A HAND METHOD TO ESTIMATE FUNDAMENTAL PERIODS OF STEEL ECCENTRICALLY BRACED FRAMES [79] <i>Ahmet KUŞYILMAZ and Cem TOPKAYA</i> EVALUATION OF DISPLACEMENT AMPLIFICATION FACTORS FOR STEEL BUCKLING RESTRAINED BRACED FRAMES [80] <i>Mehmet Bakır BOZKURT, Yasin Onuralp ÖZKILIÇ, Cem TOPKAYA</i> NUMERICAL SIMULATION OF THE PROGRESSIVE COLLAPSE BEHAVIOUR OF STEEL SELF-CENTERING MOMENT RESISTING FRAMES [81] <i>George VASDRAVELLIS, Marco BAIGUERA and Dina AL-SAMMARAI</i>
12:30 – 14:00	Lunch at Star Room (Level 42); ### Two Michelin Stars Chef Team ###

Notes: 12 min presentation + 3 min Q&A in parallel sessions; [#] = Paper number.

7 December 2016 (Wednesday)

11:00 – 12:30

Ballroom III (Level 7)

Parallel Session W1B: Composite Columns

Co-Chair: Brian UY; Co-Chair: Suwen CHEN

PROBABILISTIC SECTIONAL CAPACITY MODELS FOR RECTANGULAR CONCRETE-FILLED STEEL COLUMNS BASED ON EXPERIMENTAL OBSERVATIONS [115]

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Sándor ÁDÁNY

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Lunch at Star Room (Level 42); ### Two Michelin Stars Chef Team ###

Notes: 12 min presentation + 3 min Q&A in parallel sessions; [#] = Paper number.

7 December 2016 (Wednesday)

14:00 – 15:15

Ballrooms I & II (Level 7)

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Co-Chair: Hieng Ho LAU; Co-Chair: Lip Hen TEH

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15:15 – 15:45 (Coffee Break)

Notes: 12 min presentation + 3 min Q&A in parallel sessions; [#] = Paper number.

7 December 2016 (Wednesday)

15:45 – 17:00

Ballrooms I & II (Level 7)

Parallel Session W3A: Beams I

Co-Chair: Dinar CAMOTIM; Co-Chair: Yuner HUANG

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Man-Tai CHEN and Ben YOUNG

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Isabella GUEIROS, Renan PEREIRA, André SILVA, Luciano LIMA and Pedro VELLASCO

TESTS OF PRE-TWISTED STEEL BOX SECTION BEAMS [13]

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Huanxin YUAN, Xiaowan CHEN, Xinxi DU

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J. WANG, H. ZHU, B. UY, F. ASLANI

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D.Y. MA, W. LI, L.H. HAN, X.L. ZHAO

Notes: 12 min presentation + 3 min Q&A in parallel sessions; [#] = Paper number.

8 December 2016 (Thursday)	
	<i>Ballrooms I & II (Level 7)</i>
8:15 – 9:00	Registration & Morning Coffee
9:00 – 10:30	<p>Keynote Presentation Co-Chair: Shigeru SHIMIZU; Co-Chair: Hieng Ho LAU</p> <p>LIGHTWEIGHT STEEL-CONCRETE COMPOSITE STRUCTURES – RECENT INNOVATION AND RESEARCH BREAKTHROUGH [4] <i>J. Y. Richard LIEW, Zhenyu HUANG</i></p> <p>AUSTRALASIAN ADVANCES IN STEEL-CONCRETE COMPOSITE BRIDGE AND BUILDING STRUCTURES [5] <i>Brian UY, Stephen J. HICKS, Won-Hee KANG, Huu-Tai THAI and Farhad ASLANI</i></p> <p>COMPOSITE STRUCTURES IN THE CIRCULAR ECONOMY [6] <i>D. LAM, X.H. DAI, A.F. ASHOUR and N. REHMAN</i></p>
10:30 – 11:00	Coffee Break
11:00 – 12:30	<p>Parallel Session T1A: Columns Co-Chair: Ronald D. ZIEMIAN; Co-Chair: Liping WANG</p> <p>TESTING AND DESIGN OF STAINLESS STEEL CHS COLUMNS [14] <i>C. BUCHANAN, E. REAL and L. GARDNER</i></p> <p>TESTING AND NUMERICAL MODELLING OF AUSTENITIC STAINLESS STEEL CHS BEAM-COLUMNS [15] <i>Ou ZHAO, Leroy GARDNER and Ben YOUNG</i></p> <p>STUB COLUMN TESTS AND FINITE ELEMENT MODELLING OF COLD-ROLLED ALUMINIUM ALLOY 5052 CHANNEL SECTIONS [16] <i>Le Anh Thi HUYNH, Cao Hung PHAM and Kim J.R. RASMUSSEN</i></p> <p>EXPERIMENTAL TESTS AND THEORETICAL EVALUATIONS OF COMPRESSIVE STRENGTH AND DEFORMABILITY OF CORRODED STUB COLUMNS [17] <i>Kiichiro SAWADA, Yuki DOMRU, Taiki IMAMURA and Takuya MORI</i></p> <p>EFFECT OF IMPERFECTION ON LOCAL BUCKLING BEHAVIOR OF SQUARE HOLLOW SECTION STUB COLUMN [18] <i>Kosuke SATO and Kikuo IKARASHI</i></p> <p>A FINITE ELEMENT STUDY OF THE INFLUENCE OF BOUNDARY CONDITIONS ON COLD-FORMED COLUMN-CHANNEL BASES SUBJECTED TO AXIAL LOAD [19] <i>Saeid SHEIKHOLAREFIN, Morgan DUNDU</i></p>
12:30 – 14:00	Lunch at The Place (<i>Lobby Level</i>)

Notes: 12 min presentation + 3 min Q&A in parallel sessions; [#] = Paper number.

8 December 2016 (Thursday)

11:00 – 12:30

Ballroom III (Level 7)

Parallel Session T1B: Composite Beams & Beam-columns

Co-Chair: Dennis LAM; Co-Chair: Chao HOU

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Md. Soebur RAHMAN, Mahbuba BEGUM

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Richard STROETMANN and Lukas HUETTIG

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Parallel Session T1C: Trusses, Bridges & Towers

Co-Chair: Tomasz Wojciech SIWOWSKI; Co-Chair: Jui-Lin PENG

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Chris R. HENDY, Robert N. WHEATLEY, David A. SMITH

LOAD-CARRYING CAPACITY AND FAILURE MODELS OF SYSTEM SCAFFOLDS [87]

Jui-lin PENG, Chung-ming HO, Chung-wei WU and Chen-yu CHEN

12:30 – 14:00

Lunch at The Place (Lobby Level)

Notes: 12 min presentation + 3 min Q&A in parallel sessions; [#] = Paper number.

8 December 2016 (Thursday)

14:00 – 15:15

Ballrooms I & II (Level 7)

Parallel Session T2A: Columns & Built-up Sections

Co-Chair: Esther REAL; Co-Chair: Ji-Hua ZHU

MECHANICS OF DISTORTIONAL-GLOBAL INTERACTION IN FIXED-ENDED LIPPED CHANNEL COLUMNS [59]

André D. MARTINS, Dinar CAMOTIM, Rodrigo GONÇALVES and Pedro B. DINIS

BEHAVIOUR AND DSM DESIGN OF HAT, ZED AND RACK COLUMNS EXPERIENCING LOCAL-DISTORTIONAL-GLOBAL INTERACTION [60]

Pedro B. DINIS and Dinar CAMOTIM

FINITE ELEMENT ANALYSIS OF AXIALLY LOADED COLD-FORMED STEEL BACK-TO-BACK CHANNEL BUILT-UP SECTIONS [61]

T.C.H. TING and H.H. LAU

NUMERICAL STUDY OF COLD-FORMED STEEL BUILT-UP CLOSED SECTIONS WITH WEB HOLES UNDER BENDING [62]

Liping WANG and Ben YOUNG

COMPRESSION TESTS OF COLD-FORMED STEEL BUILT-UP CLOSED SECTIONS WITH WEB STIFFENERS [63]

Jia-Hui ZHANG and Ben YOUNG

Ballroom III (Level 7)

Parallel Session T2B: Shear Connectors

Co-Chair: Kang-Hai TAN; Co-Chair: Ju CHEN

EXPERIMENTAL STUDY FOR STATIC BEHAVIOR OF STUD CONNECTOR IN ELASTIC CONCRETE-STEEL COMPOSITE BEAMS [131]

Qinghua HAN, Ying XING, Jie XU, YiHong WANG and Guang YANG

EXPERIMENTAL STUDY FOR FATIGUE BEHAVIOR OF STUD CONNECTOR IN ELASTIC CONCRETE-STEEL COMPOSITE BEAMS [132]

Jie XU, Ying XING, Qinghua HAN, YiHong WANG and Mingjie LIU

TECHNICAL APPROVAL FOR COMPOSITE DOWELS AS SHEAR CONNECTORS FOR COMPOSITE BEAMS [133]

K. KATHAGE and M. FELDMANN

STRUCTURAL RESPONSE OF COMPOSITE BEAM WITH LOW DEGREE OF SHEAR CONNECTION [135]

T. SHEEHAN, D. LAM and X. DAI

REDUNDANCY EVALUATION OF SIMPLY SUPPORTED COMPOSITE TWIN I-GIRDER BRIDGE [152]

Heang LAM, Weiwei LIN and Teruhiko YODA

15:15 – 15:45 (Coffee Break)

Notes: 12 min presentation + 3 min Q&A in parallel sessions; [#] = Paper number.

8 December 2016 (Thursday)

15:45 – 16:30

*Ballrooms I & II (Level 7)***Parallel Session T3A: Beams II**

Co-Chair: Shigeru SHIMIZU; Co-Chair: Cao Hung PHAM

FLEXURAL RESISTANCE OF ALUMINIUM ALLOY CIRCULAR HOLLOW SECTIONS [20]

Meini SU, Ben YOUNG, Leroy GARDNER and Craig BUCHANAN

INFLUENCE OF FLANGE AND WEB ON LOCAL BUCKLING OF I SECTIONS UNDER BENDING [21]

T. WILKINSON, J. ROBINSON and A. KUGENDRAN

EXPERIMENTAL INVESTIGATION AND FINITE ELEMENT ANALYSIS OF LOCAL-OVERALL BUCKLING BEHAVIOR OF ALUMINIUM ALLOY BEAMS [22]

*Zhongxing WANG, Yuanqing WANG and Fuxin YIN**Ballroom III (Level 7)***Parallel Session T3B: Advanced Structural Engineering II**

Co-Chair: Sandor ADANY; Co-Chair: Wei LI

ENERGY-BASED CALCULATION METHOD OF LATERAL BUCKLING LOAD FOR LEANING-TYPE ARCH RIB SYSTEM [113]

Airong LIU, Youqin HUANG, Yi WU, Zhicheng YANG

NUMERICAL ANALYSIS ON MECHANICAL RESPONSE OF AXIALLY RESTRAINED CHORDS AT ELEVATED TEMPERATURES [98]

Jingzhan PENG, Yong DU, Mingxiang XIONG, Jie ZOU

OPTIMIZATION ANALYSIS OF BULKHEAD IN U-RIB OF OSD BASED ON HOT SPOT STRESS METHOD [99]

*A. ZHU, Z. YIN, M. LI, G. XU, H. XIAO, F. GAO**Shantung II (Level 8)***Parallel Session T3C: Material Properties**

Co-Chair: Enrique MIRAMBELL; Co-Chair: Feng ZHOU

MECHANICAL PROPERTIES OF COLD-ROLLED ALUMINIUM ALLOY 5052 CHANNEL SECTIONS [45]

Le Anh Thi HUYNH, Cao Hung PHAM and Kim J.R. RASMUSSEN

TESTING OF ADDITIVE MANUFACTURED METALLIC COUPONS AND CROSS-SECTIONS [46]

C. BUCHANAN, V-P. MATILAINEN, A. SALMINEN and L. GARDNER

ADVANCED NUMERICAL MODELLING ON WELDED S355 & S690 STEEL H-SECTIONS FOR RESIDUAL STRESSES [47]

*X. LIU and K.F. CHUNG***Conference Banquet** (Coach departs at 17:30 from Level B2)

Notes: 12 min presentation + 3 min Q&A in parallel sessions; [#] = Paper number.

9 December 2016 (Friday)	
	<i>Ballrooms I & II (Level 7)</i>
8:15 – 9:00	Registration & Morning Coffee
9:00 – 10:30	<p>Keynote Presentation Co-Chair: Pedro VELLASCO; Co-Chair: Lip Hen TEH</p> <p>THE U.S. SPECIFICATION FOR ALUMINUM STRUCTURES (2010-16) – MAJOR CHANGES AND RESEARCH [7] <i>Ronald D. ZIEMIAN and J. Randolph KISSELL</i></p> <p>EXPERIMENTAL TESTS ON 3D COMPOSITE FLOOR SYSTEMS AFTER REMOVAL OF AN INTERNAL COLUMN [8] <i>Q.N. FU, B. YANG and K.H. TAN</i></p> <p>INVESTIGATION ON LIFE-CYCLE BASED THEORY OF CONCRETE-FILLED STEEL TUBULAR (CFST) STRUCTURES [9] <i>Lin-Hai HAN</i></p>
10:30 – 11:00	Coffee Break
11:00 – 12:30	<p>Parallel Session F1A: Girders Co-Chair: David HERNANDE-FIGUEIRIDO; Co-Chair: Tae Soo KIM</p> <p>A NUMERICAL STUDY OF CURVED STEEL I-GIRDERS SUBJECTED TO SHEAR [64] <i>E. MIRAMBELL, E. RODRIGUEZ and A. RODRIGUEZ</i></p> <p>SHEAR BUCKLING OF LEAN DUPLEX STAINLESS STEEL PLATE GIRDERS WITH NON-RIGID END POSTS [65] <i>Maarten FORTAN, Kristof DE WILDER, Dimitri DEBRUYNE and Barbara ROSSI</i></p> <p>SECTION MOMENT CAPACITY TESTS OF HOLLOW FLANGE STEEL PLATE GIRDERS [66] <i>Nilakshi PERERA, Mahen MAHENDRAN</i></p> <p>A PARAMETRIC STUDY ON STIFFENED PLATE PANELS OF RECTANGULAR INDUSTRIAL DUCTS [67] <i>Ken S. SIVAKUMARAN, T. THANGA and B. HALABIAH</i></p> <p>TESTS OF COLD-FORMED FERRITIC STAINLESS STEEL PERFORATED BEAMS OF RECTANGULAR HOLLOW SECTIONS [33] <i>Yuner HUANG and Ben YOUNG</i></p> <p>COMPARATIVE STUDY OF FATIGUE BEHAVIOUR FOR EXISTING AND NEW STEEL BRIDGE GIRDER [68] <i>Olivia MIRZA, Brendan KIRKLAND, Bradley DEKRUIF and Fedelis MASHIRI</i></p>
12:30 – 14:00	Lunch at Star Room (Level 42)

Notes: 12 min presentation + 3 min Q&A in parallel sessions; [#] = Paper number.

Ballroom III (Level 7)

Parallel Session F1B: Composite Members under Extreme Loading Conditions

Co-Chair: Feng ZHOU; Co-Chair: Katsuhiko GOTO

BEHAVIOR OF A CONCRETE-FILLED STEEL BOX COLUMN WITH CONSIDERING NON-LINEARITY OF THE CONCRETE UNDER THE SEISMIC LOAD [136]

S. ZENAI, S. SHIMIZU

EXPERIMENTAL STUDY ON DYNAMIC BEHAVIOUR OF SHEAR CONNECTORS IN COMPOSITE BEAMS WITH PROFILED STEEL SHEETING [134]

Haitao WANG, Jingsi HUO and Long LI

FINITE ELEMENT ANALYSIS ON FIRE EXPOSED CONCRETE-ENCASED CFST COLUMN SUBJECTED TO CYCLIC LOADING [137]

T. WANG, W. LI and L.H. HAN

EXPERIMENTAL ANALYSIS AND SIMULATION OF SLENDER CONCRETE-FILLED STEEL TUBULAR COLUMN UNDER COMBINED FIRE AND LOADING [138]

J.Q. LIU, Z.Q. CUI, L.H. HAN, K. ZHOU and X.L. ZHAO

CRACK COLLAPSE AND COLUMN OVERDESIGN FACTOR DISTRIBUTION OF CFT FRAME [139]

Katsuhiko GOTO

IMPROVING CRACK RESISTANCE OF CONFINED CONCRETE BY SILICA FUME [140]

A.A. ROSLEE, D. FERNANDO and J.C.M. HO

Shantung II (Level 8)

Parallel Session F1C: Structural Stability II

Co-Chair: Ju CHEN; Co-Chair: Bo YANG

THE ROOTS OF TENSILE SHEET BUCKLING [69]

N. SILVESTRE

CHORD STRESS FUNCTIONS FOR ULTIMATE STRENGTH OF CHS T-JOINTS [52]

Y. KUROSE and K. OCHI

THE ELASTIC BUCKLING BEHAVIOR OF THIN-WALLED STEEL CYLINDRICAL SHELL WITH FOLDED, CURVED GROOVES AND STIFFENED PLATES [71]

Koki HOSHIDE, Yuji SOGABE, Mitao OHGA and Tsunemi SHIGEMATSU

CRITICAL AXIAL FORCE OF TORSIONAL-FLEXURAL BUCKLING FOR VARIOUS BOUNDARY CONDITIONS BY GOLDENVEJZER'S APPROXIMATE METHOD [72]

Michal KOVÁČ, Ivan BALÁŽ, Yvona KOLEKOVÁ and Tomáš ŽIVNER

BUCKLING BEHAVIOR OF STIFFENED PLATES UNDER BIAXIAL COMPRESSION AND SHEAR [74]

Joseph NDOGMO, Martin MENSINGER

BEHAVIOUR OF SUBMERGED CIRCULAR TOROIDAL VESSELS [75]

Nosakhare ENOMA and Alphose ZINGONI

Ballroom IV (Level 7)

Parallel Session F1D: Web Crippling

Co-Chair: Kim J.R. RASMUSSEN; Co-Chair: Meini SU

EXPERIMENTAL AND NUMERICAL INVESTIGATION OF COLD-FORMED STEEL SECTIONS WITH WEB OPENINGS UNDER ONE-FLANGE LOADING CONDITION SUBJECTED TO WEB CRIPPLING [23]

Ying LIAN, Asraf UZZAMAN, James B.P. LIM, Gasser ABDELAL, David NASH and Ben YOUNG

PARAMETRIC STUDIES AND DESIGN RECOMMENDATIONS OF COLD-FORMED STEEL SECTIONS WITH WEB OPENINGS SUBJECTED TO WEB CRIPPLING [24]

Ying LIAN, Asraf UZZAMAN, James B.P. LIM, Gasser ABDELAL, David NASH and Ben YOUNG

WEB CRIPPLING OF COLD-FORMED HIGH STRENGTH STEEL TUBULAR SECTIONS UNDER ONE-FLANGE LOADING CONDITIONS [25]

Hai-Ting LI and Ben YOUNG

EXPERIMENTAL AND NUMERICAL STUDIES ON THE EFFECT OF FLANGE RESTRAINTS ON TENSION FIELD ACTION IN COLD-FORMED C-SECTIONS IN SHEAR [26]

Dmitry ZELENKIN, Cao Hung PHAM and Gregory J. HANCOCK

MODAL ANALYSIS OF LIPPED CHANNEL SECTIONS WITH RECTANGULAR WEB-STIFFENERS IN SHEAR [27]

Morgan A. RENDALL, Gregory J. HANCOCK and Kim J.R. RASMUSSEN

NUMERICAL ANALYSIS OF STIFFENED CURVED PANELS UNDER COMPRESSION [28]

Tiago MANCO, João P. MARTINS, Constança RIGUEIRO and Luís SIMÕES DA SILVA

12:30 – 14:00 Lunch at Star Room (Level 42)

Notes: 12 min presentation + 3 min Q&A in parallel sessions; [#] = Paper number.

Ballrooms I & II (Level 7)	Ballroom III (Level 7)	Shantung II (Level 8)	Ballroom IV (Level 7)
Parallel Session F2A: Beams III Co-Chair: Richard STROETMANN; Co-Chair: Sheida AFSHAN DESIGN OF COLD-FORMED HIGH STRENGTH STEEL TUBULAR STUB COLUMNS AND BEAMS [29] <i>Jia-Lin MA, Tak-Ming CHAN and Ben YOUNG</i> FULL SLENDERNESS RANGE DSM APPROACH FOR FERRITIC STAINLESS STEEL HOLLOW CROSS-SECTIONS [30] <i>I. ARRAYAGO, K.J.R. RASMUSSEN and E. REAL</i> DESIGN AND BEHAVIOUR OF COLD-FORMED FERRITIC STAINLESS STEEL SHS AND RHS BEAMS [31] <i>Lianghao LI and Ben YOUNG</i> NUMERICAL SIMULATIONS OF HORIZONTALLY-RESTRAINED STEEL BEAMS SUBJECTED TO IMPACT LOADS [32] <i>Lin WANG, Bo YANG, Shao-Bo KANG, Hao WANG and Gang XIONG</i> TESTS ON THE BENDING CAPACITY OF COLD-FORMED STAINLESS STEEL RECTANGULAR HOLLOW SECTIONS [35] <i>Baofeng ZHENG, Xiaoming SHEN, Lianchun XIN, and Ganping SHU</i>	Parallel Session F2B: Composite Members Strengthening Co-Chair: Ken S. SIVAKUMARAN; Co-Chair: Yuner HUANG EXPERIMENTAL STUDY ON STEEL CHS SLENDER COLUMNS STRENGTHENED BY CFRP UNDER AXIAL COMPRESSION [141] <i>Haiying WAN, Ran FENG and Jun PENG</i> ADVANCES IN THE STUDY OF STEEL FLEXURAL MEMBERS STRENGTHENED BY CFRP [142] <i>Haiying WAN, Ran FENG and Qiuru CHEN</i> FLEXURAL STRENGTHENING OF STEEL BEAMS WITH PASSIVE AND ACTIVE CFRP PLATES [143] <i>Tomasz W. SIWOWSKI, Paulina PAŚKO</i> IMPROVING THE FLEXURAL STIFFNESS AND LATERAL TORSIONAL BUCKLING BEHAVIOUR OF THE STRUCTURAL STEEL CHANNEL SECTIONS BY CFRP STRENGTHENING [144] <i>Sivaganesh SELVARAJ, Mahendrakumar MADHAVAN, Saurabh U. DONGRE and Jayaraman VEKATESAN</i> REINFORCED CONCRETE BEAMS STRENGTHENED WITH STEEL PLATES OF DIFFERENT WIDTH-TO-THICKNESS RATIOS [145] <i>SM RAKGATE and M. DUNDU</i>	Parallel Session F2C: Cyclic Loadings Co-Chair: Cem TOPKAYA; Co-Chair: Jia-Hui ZHANG CYCLIC LOADING TESTS OF STRUCTURAL STAINLESS STEEL AUSTENITIC 304 [100] <i>L. LI, F. ZHOU</i> EXPERIMENTAL INVESTIGATION INTO HYSTERETIC BEHAVIOUR OF HIGH STRENGTH S690 STEEL UNDER DIFFERENT TARGETED STRAINS [101] <i>H.C. HO, X. LIU, M. XIAO and K.F. CHUNG</i> LOW CYCLE HIGH STRAIN CYCLIC TESTS ON STEEL COUPONS OF HIGH STRENGTH S690 STEEL WELDED SECTIONS [102] <i>K.F. CHUNG, H.C. HO, X. LIU, and M. XIAO</i> NUMERICAL SIMULATION OF HYSTERETIC BEHAVIOR OF Q690D HIGH STRENGTH STEEL H-SECTION BEAM-COLUMNS [103] <i>Le-Tian HAI, Guo-Qiang LI and Yan-Bo WANG</i> NUMERICAL MODELLING OF ELLIPTICAL STEEL TUBULAR BRACING MEMBERS UNDER EXTREMELY LOW CYCLE FATIGUE LOADING [104] <i>Perumalla V R. NARENDRA and Konjengbam Darunkumar SINGH</i>	Parallel Session F2D: Extreme Loading Conditions I Co-Chair: Barbara ROSSI; Co-Chair: Yancheng CAI NUMERICAL STUDY OF SIMPLE AND RIGID BEAM-COLUMN JOINTS SUBJECT TO IMPACT LOAD [105] <i>K. CHEN, K.H. TAN and B. YANG</i> A PARAMETRIC STUDY ON BEARING STRENGTHS OF COLD-FORMED STAINLESS STEEL BOLTED CONNECTIONS AT ELEVATED TEMPERATURES [106] <i>Yancheng CAI and Ben YOUNG</i> CASE STUDY OF RESIDUAL FIRE RESISTANCE OF MULTISTORY STEEL FRAMES FOLLOWING MODERATE EARTHQUAKES [107] <i>Mian ZHOU, Liming JIANG, Yanjun WANG, Suwen CHEN, Asif USMANI</i> SHEAR RESISTANCE OF STIFFENED ANGLE SHEAR CONNECTOR CONSIDERING ELEVATED TEMPERATURE EFFECT [108] <i>Karim NOURI, N. H. RAMLI SULONG and Mahdi SHARIATI</i> THE SETTLEMENT INVESTIGATION OF A STEEL PIPE SHEET PILE FOUNDATION DURING POST LIQUEFACTION [109] <i>Nguyen Thanh TRUNG</i>

Ballrooms I & II (Level 7)	Ballroom III (Level 7)	Shantung II (Level 8)	Ballroom IV (Level 7)
Parallel Session F3A: Connections II Co-Chair: Wei LU; Co-Chair: André TENCHINI DA SILVA A STUDY ON PERFORMANCES OF SCREW CONNECTION FOR COLD-FORMED STEEL STRUCTURES [48] <i>H.H. LAU, T.Z.H. TING, W.M. QUACH, D.Y.X. TIE, S. FAIRUZ and A. AHMADI</i> EXPERIMENTAL AND THEORETICAL INVESTIGATION OF CUPLOCK® SPIGOT CONNECTIONS [49] <i>João ANDRÉ, Robert G. BEALE and António M. BAPTISTA</i> ULTIMATE STRENGTH ON THE STRUCTURAL BEHAVIORS OF THIN-WALLED ALUMINUM ALLOY (7075-T6) BOLTED CONNECTIONS [50] <i>Bo-Kyung HWANG, Hoo-Chang LEE and Tae-Soo KIM</i> AN INVESTIGATION ON ULTIMATE STRENGTH OF AUSTENITIC STAINLESS STEEL (304 TYPE) FILLET-WELDED CONNECTIONS WITH FRACTURE OF WELD METAL [51] <i>Hoo-Chang LEE, Bo-Kyung HWANG and Tae-Soo KIM</i> SIMPLIFIED MODELS FOR HANGER CONNECTIONS AT TIED ARCH BRIDGES [53] <i>Marjolaine PFAFFINGER and Martin MENSINGER</i>	Parallel Session F3B: Composite Slabs & Trusses Co-Chair: Pedro VELLASCO; Co-Chair: Meini SU INFLUENCE OF NON-UNIFORM SHRINKAGE ON THE LONG-TERM BEHAVIOUR OF STEEL-CONCRETE COMPOSITE SLABS [146] <i>Safat AL-DEEN</i> COMPOSITE FLOORING SYSTEMS COMPRISING COLD-FORMED STEEL JOISTS AND WOOD-BASED BOARDS [147] <i>Pinelopi KYVELOU, Leroy GARDNER and David A. NETHERCOT</i> EXPERIMENTAL STUDY: FULL-SCALE COMPOSITE FLOOR PLATE TEST [148] <i>X. DAI, D. LAM, T. SHEEHAN</i> ANALYTICAL BEHAVIOUR OF CFST CHORD TO HOLLOW TUBULAR BRACE TRUSS SUBJECTED TO BENDING [149] <i>Chao HOU, Lin-Hai HAN and Shan-Hu HE</i> DESIGN OF STEEL-CONCRETE-STEEL SANDWICH COMPOSITE SHELL STRUCTURES [150] <i>Zhenyu HUANG, J.Y. Richard LIEW</i>	Parallel Session F3C: Scaffolds & Frames Co-Chair: Yonglin PI; Co-Chair: Ou ZHAO SYSTEM RELIABILITY-BASED DESIGN OF SEMI-RIGID STEEL FRAMES BY ADVANCED ANALYSIS [88] <i>Huu-Tai THAI and Brian UY</i> INCREMENTAL DYNAMIC ANALYSIS AND SEISMIC PERFORMANCE EVALUATION OF AN ALUMINUM FRAMED BUILDING COMPARED WITH STEEL [89] <i>Vahid MEIMAND, Shahab TORABIAN, Benjamin W. SCHAFER, Randy KISSELL, Cristopher D. MOEN, and Brooks H. SMITH</i> BUCKLING STRENGTH OF THIN-WALLED STRUCTURES WITH FOLDED AND CURVED GROOVES IN CONSIDERATION OF THE CURVATURES OF CORNERS AND STIFFENED PARTS [70] <i>Koki HOSHIDE, Yuji SOGABE, Mitao OHGA and Tsunemi SHIGEMATSU</i> OPTIMUM DESIGN OF COLD-FORMED STEEL PORTAL FRAME ACCOUNTING FOR EFFECT OF SEMI-RIGID JOINTS [90] <i>DT PHAN, JPB LIM, H-H LAU</i> SECOND ORDER NUMERICAL ANALYSIS OF FULL-SCALE TUBE AND FITTING SCAFFOLD STRUCTURES WITH NON-LINEAR MOMENT-CURVATURE: COMPARISON OF 2D AND 3D MODELS [91] <i>Maha AL-LASASSMEH, Mu'tasim ABDEL-JABER, Maha ALQAM and Robert G. BEALE</i>	Parallel Session F3D: Extreme Loading Conditions II Co-Chair: Nuno SILVESTRE; Co-Chair: Jia-Lin MA COMPUTATIONAL STUDY ON SEISMIC STEEL STRUCTURES WITH LARGE DEFORMABLE ELASTIC BRACES [97] <i>Kiichiro SAWADA, Ginji NISHIDA, Kento NAKAMURA, Hiroki ETO and Masashi TSURUDA</i> ANALYTICAL METHOD FOR MECHANICAL RESPONSE OF PRE-TENSION STEEL CABLES EXPOSED TO LOCALISED FIRES [110] <i>Binyan CHEN, Yong DU, J.Y. Richard LIEW, Guoqiang LI</i> EXPERIMENTAL STUDY ON SPRING SET FOR AXIALLY RESTRAINED CHORDS IN FIRE [111] <i>Pudi ZHANG, Yong DU, Mingxiang XIONG and Yongzhen ZHANG</i> ANALYTICAL METHOD OF MECHANICAL BEHAVIORS FOR BEAM STRING STRUCTURE EXPOSED TO LOCALIZED FIRES [112] <i>Fei CHENG, Yong DU, Hongmei SHENG</i> A NOVEL SELF-CENTERING ENERGY DISSIPATION DEVICE WITH SHAPE MEMORY ALLOYS CONSIDERING TEMPERATURE EFFECTS [114] <i>Ran LI, Ganping SHU and Zhen LIU</i>

Notes: 12 min presentation + 3 min Q&A in parallel sessions; [#] = Paper number.

Location of Conference Banquet

The 8th International Conference on Steel and Aluminium Structures

Date: 8 December 2016 (Thursday)

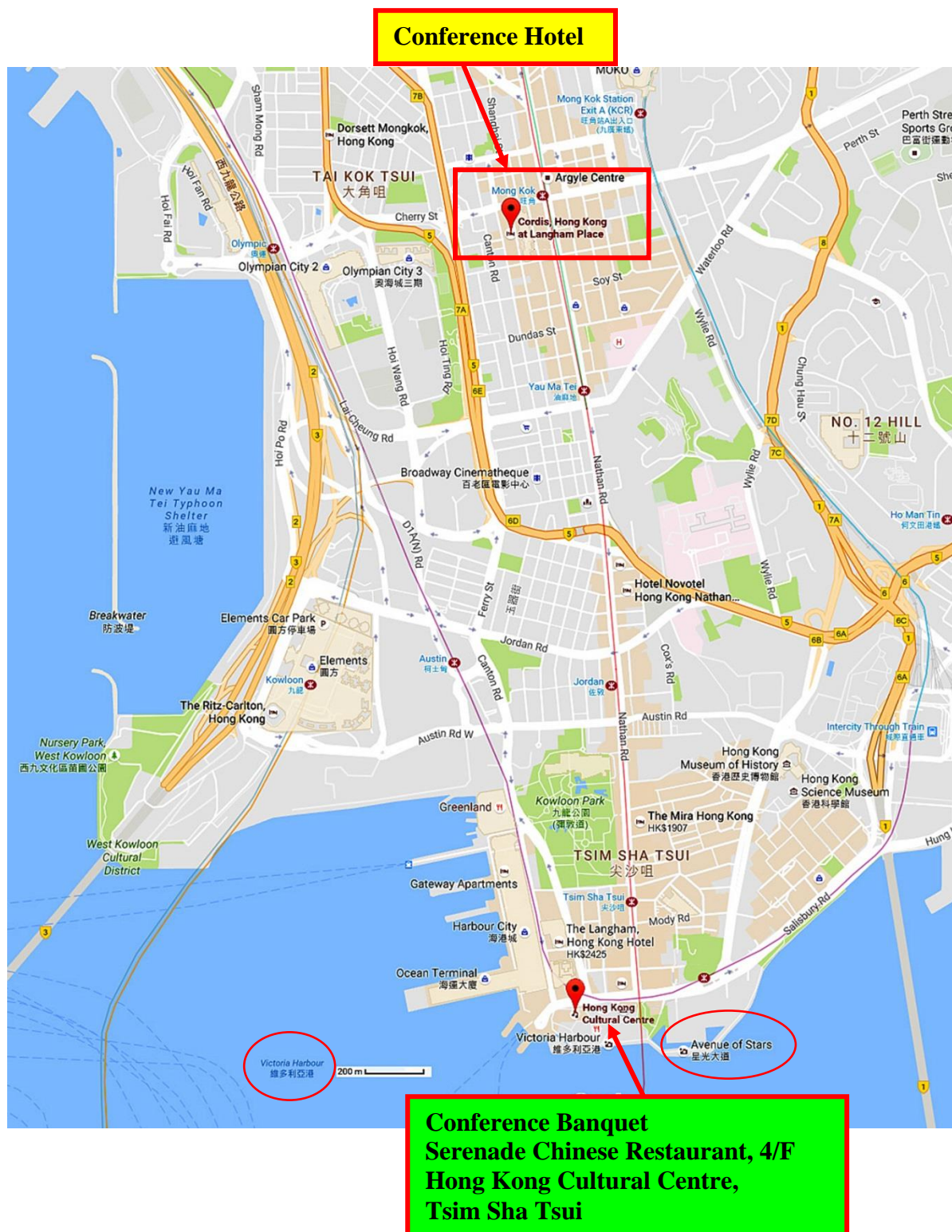
Time: 17:30* (18:00 – 21:30)

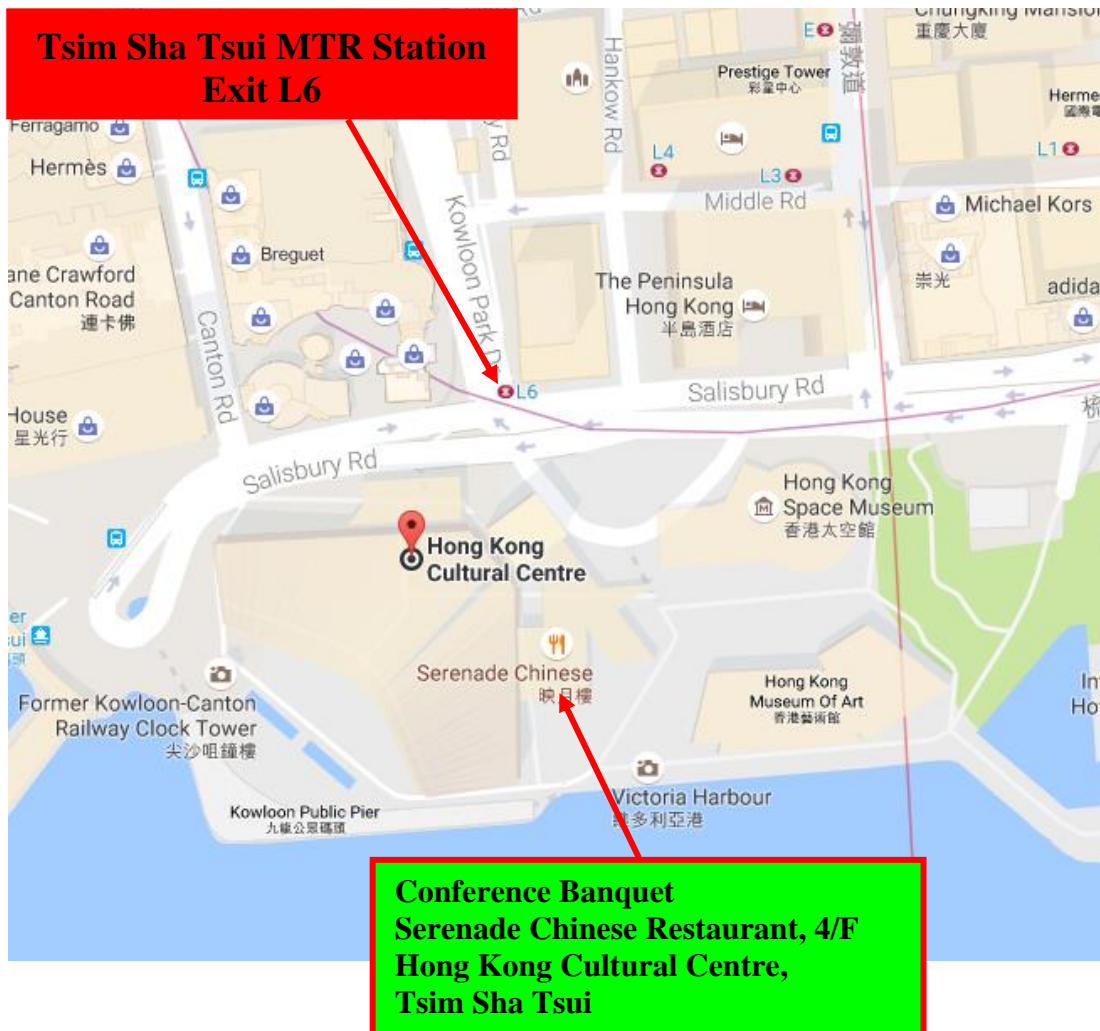
Venue: Serenade Chinese Restaurant, 4/F, Hong Kong Cultural Centre,
Restaurant Block, Tsim Sha Tsui.

Tel: +852 2722 0932

Website: http://www.maximschinese.com.hk/eng/restaurant/outlet_facts.aspx?sId=30

***Coach departs at 17:30 from Carpark Level B2 (Basement 2) of the Cordis Hotel.**





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Conference Program Overview
The 8th International Conference on Steel and Aluminium Structures (ICSAS 2016)
Cordis Hotel, 555 Shanghai Street, Mong Kok, Kowloon, Hong Kong

	6 December 2016 (Tuesday)		
17:00 – 21:00	Welcome Reception Dinner & Laboratory Tour at The University of Hong Kong		
	7 December 2016 (Wednesday)	8 December 2016 (Thursday)	9 December 2016 (Friday)
7:30 – 8:30	Registration & Morning Coffee		
8:30 – 9:00	Opening Ceremony	(8:15 – 9:00) Registration & Morning Coffee	
9:00 – 10:30	Keynote Presentation Ballrooms I & II		
10:30 – 11:00	Coffee Break		
11:00 – 12:30	Parallel Sessions Ballrooms I & II, Ballroom III and Shantung II	Parallel Sessions Ballrooms I & II, Ballroom III, Ballroom IV and Shantung II	
12:30 – 14:00	Lunch at Star Room (<i>Level 42</i>) ### Two Michelin Stars Chef Team ###	Lunch at The Place (<i>Lobby Level</i>)	Lunch at Star Room (<i>Level 42</i>)
14:00 – 15:15	Parallel Sessions Ballrooms I & II, Ballroom III and Shantung II	Parallel Sessions Ballrooms I & II, and Ballroom III	Parallel Sessions Ballrooms I & II, Ballroom III, Ballroom IV and Shantung II
15:15 – 15:45	Coffee Break		
15:45 – 17:00 (15:45 – 16:30 on Thursday)	Parallel Sessions Ballrooms I & II and Ballroom III	Parallel Sessions Ballrooms I & II, Ballroom III and Shantung II	Parallel Sessions Ballrooms I & II, Ballroom III, Ballroom IV and Shantung II
18:00 – 21:30		Conference Banquet*	
Note: Ballrooms are located at 7/F, and Shantung II room is located at 8/F.			
P.S. All events will be held at Cordis Hotel, <u>except Conference Banquet</u> will be held at Serenade Chinese Restaurant, 4/F, Hong Kong Cultural Centre, Restaurant Block, Tsim Sha Tsui, Kowloon.			
*Coach departs at 17:30 from Carpark Level B2 (Basement 2) of the Cordis Hotel.			