## The Fourteenth Taiwan-Korea-Japan Joint Seminar on Earthquake Engineering for Building Structures (SEEBUS 2012)

Osaka, Japan, November 1-2, 2012

Seminar Program

Thursday, November 1

09:00 - 09:30 Registration 09:30 - 09:40 Opening Session

09:50 - 11:10 Session A: Shear Wall (Chair: Minehiro NISHIYAMA and Tae-Jin KIM)

- (1) Nonlinear 3D Solid Finite Element Analysis of RC Shear Wall Subassemblages under Lateral Loads *Kyung Ran HWANG and Han Seon LEE*
- (2) Static Loading Test of Precast CES Shear Walls in Fleural Failure *Tomoya MATSUI, Takashi FUJII, Suguru SUZUKI and Hiroshi KURAMOTO*
- (3) Interaction between Over-Turning Moment and Shear Capacity of Seismi Light Gage Bearing Wall *Atsushi SATO*, *Tetsuro ONO*, *Hisayuki OKADA*, *Shigeaki TONAI and Honami NISHIZAWA*
- (4) Study on Deformation Capacity of R/C Bearing Walls with Rectangular Cross-Section Based on Experimental Database Masanori TANI, Hiroshi FUKUYAMA and Susumu KONO
- 11:20 12:00 Session B: Seismic Device (Chair: Kyung-Won MIN and Shih-Yu Joseph CHU)
- (1) New Shape of LCVA with Multi Cells Reducing Wind Induced Responses of Tall Buildings **Dong Ik KIM**, Kyung Won MIN, Ji Hun PARK, Ji Young SEONG, Lae Keon KIM, Kyu Seok HWANG, Yong Sik GIL and Dong Guen LEE,
- (2) Seismic Performance Evaluation of a School Building Retrofitted with the Ultra-Strength Steel *Yu Lin CHUNG*, *Xuchuan LIN and Kazuhiro HAYASHI*

12:00 - 13:00 Lunch

## 13:00 - 14:00 Session C: Precast / Prestressed Concrete (Chair: Chung-Che CHOU and Masanori TANI)

- (1) Innovative Construction Technologies for Substainable Development *Raymond WANG and Samuel Yen-Liang Yin*
- (1) Flexural Behavior of Prestressed Concrete Beams using Steel-Fiber Reinforced Concrete *Hyeongjae YOON* and *Minehiro NISHIYAMA*
- (3) Seismic Performance of Prestressed Concrete Beams -Effect of Bond Strength and Mild Steel Ratio-Jaeman LEE and Minehiro NISHIYAMA

14:00 - 15:20 Session D: Beam-Column Joint (Chair: Bing LI and Kil-Hee KIM)

- (1) Considerations of Bond-Slip for Performance-based Design of RC Beam-Column Connections *Hong Gun PARK*, *Hyeon Jong HWANG and Tae Sung EON*
- (2) Anchorage Behavior of Headed Bar in Beam-Column Joints *Chien Kuo CHIU*, *Ker Chun LIM and Kai Ning CHI*
- (3) Flexural Strength of Beam-Column Joint in Reinforced Concrete Building with Soft-FirstStory Susumu TAKAHASHI, Halim SEFATULLAH, Toshikatsu ICHINOSE, Masaomi TESHIGAWARA and Hiroshi FUKUYAMA
- (4) Experimental Study on Structural Behavior of Concrete-Filled Square tubular Column to H-Beam Connections without Diaphragm Masaru TERAOKA and Satoshi SASAKI
- 15:40 17:00 Session E: Steel Structures(Chair: Cheol-Ho LEE and Yu-Lin CHUNG)
- (1) Analytical Investigation of Seismic Performance of WUF-W Connections to Inclined Columns *Yong Wan KIM, Tae Jin KIM, Dae Eon KANG and Jong Ho KIM*
- (2) Local Buckling and Inelastic behaviour of I-Shaped Beams Fabricated from High Strength Steel *Cheol Ho LEE, Kyu Hong HAM, Dae Kyung KIM, Chang Hee PARK and Chia Ming UANG*
- (3) Experimental Behavior of In-Plane Buckling Braces Cheng Chih Chen and Wei Chien TANG
- (4) Internal Flange Stiffened Moment Connections with Low damage Capability under Seicmic Loading *Chung Che CHOU*, *Sheng Wei LO and Gin Show LIOU*

17:00 – 18:20 Session F: Dynamic Response Characteristics (Chair: Lyan-Ywan LU and Atsushi SATO)

- (1) Response Modification Factor for Lightweight Steel Panel-Modular Structures as a Dual Frame System *Sung Gul HONG and Eo Jin LEE*
- (2) Evaluation of Field Measured Damping Ratio of Tall Concrete Buildings in Korea *Hong Jim KIM, Jin Hee JEONG and Ji Seong JO*
- (3) Co-Shape Oscillators for the Seismic Analysis of Inelastic Asymmetric-Plan Buildings *Jui Liang LIN*, *Keh Chyuan TSAI and Ming Chieh CHUANG*
- (4) Early Stage Seismic Damage Assessment of Reinforced Concrete Walls Considering Crack Conditions Junya YOSHIMURA, Susumu KONO, Masanobu SAKASHITA, Minehiro NISHIYAMA, Takuya NAGAE, Taizou MATSUMORI, Tomohisa MUKAI Masanori TANI, Hiroshi FUKUYAMA and Isao AMANO

19:00 – 21:00 Dinner at Osaka University

## Friday, November 2

- 09:10 10:30 Session G: Reinforced Concrete (Chair: Hiroshi KURAMOTO and Ji-Hun PARK)
- (1) Bond-Strengthing Hooks for RC Members with High Strength Shear-Reinforcing Spirals *Kil Hee KIM*, *Young Seek KIM*, *Min Jun KIM*, *Dong Hwan KIM and Sang Woo KIM*
- (2) Axial Elongation of Reinforced Concrete Members Jung Yoon LEE and Jung Wook PARK
- (3) Plastic Hinge Length of Corroded Reinforced Concrete Beams Yu Chen OU and Nguyen Dang NGUYEN
- (4) Response of Old-Type RC Columns under Seismic Loading *Bing LI* and Thanh Phuon PHAM
- 10:40 11:40 Session H: Masonry Structures (Chair: Hong-Gun PARK and Yu-Chen OU)
- (1) Effects of Added Viscous Damping on Seismic Response of Masonry-Infilled Frames *Ji Hun PARK*
- (2) Analytical Cracking Resistance and Initial Stiffness of Confined Masonry Wing-Walls *Yi Hsuan TU*, *Hsing Yu YEH and Tsung Hua CHAUANG*
- (3) Analytical Model for Strength and Stiffness Prediction of Brick Masonry Infill *Maidiawati*, *Yasushi SANADA and THANDAR OO*
- 11:40 12:20 Session I: Risk / Damage Assessment (Chair: Shyh-Jiann HWANG and Masanobu SAKASHITA)
- (1) Damage Assessment of Scaled-Down Two-Story Reinforced Concrete School Building Models *Shih Yu CHU*, *Min Hsiang HU and Ling Chieh Chang*
- (2) Sensitivity Studies for Seismic Performance Assessment of Safety-Related Nuclear Structures *Yin Nan HUANG*

12:30 - 13:30 Lunch

- 13:30 13:40 Closing Session
- 15:00 Construction Site Tour (ACTY Osaka)
- 18:30 Dinner at Downtown Osaka