## The 16<sup>th</sup> Japan-Taiwan-Korea Joint Seminar on Earthquake Engineering for Building Structures, Seoul, Korea, September 19-20, 2014

## Seminar Program

Friday, September 19

08:00 Bus from Hoam Faculty House to Bldg. #39, B103 Multi-purpose Conference Hall (Two SNU students will be waiting in front of the main building of Hoam Faculty House)

08:30-08:50 Registration

08:50-09:00 Opening Session

Prof. Susumu Kono

Prof. Chung-Che Chou

Prof. Cheol-Ho Lee

09:00-10:30 Session A: Reinforced Concrete Structures I (Bldg. #39, B103)

Chairman: Prof. Sung-Gul Hong and Prof. Masanobu Sakashita

- 1. Torsional Responses of an RC Low-Rise Building Model Having Irregularities at Ground Story Han Seon Lee and Kyung Ran Hwang
- 2. Experimental Study on the Impact Damage of Reinforced Concrete Walls Caused by Collision of Tsunami Debris
  - Hidekazu Watanabe, Susumu Kono, and Satoshi Nakamura
- 3. An Experimental Study On Confined RC Wall Boundary Regions under Uniaxial Monotonic and Cyclic Reversal Loadings
  - Eko Yuniarsyah, Rafik Taleb, Susumu Kono, and Masanori Tani
- 4. Bond Strength Model for Beam Re-bars in Interior Beam-Column Joints Hong-Gun Park, Hyeon-Jong Hwang, and Tae-Sung Eom
- 5. Effect of Bi-directional Lateral Loading on In-plane Shear Resistance of RC Wall Takanori Matsui, Yuki Idosako, Masanobu Sakashita, and Minehiro Nishiyama

10:30-10:50 Coffee Break

10:50-12:20 Session B: Tall Buildings and Base Isolation (Bldg. #39, B103)

Chairman: Prof. Han Seon Lee and Prof. Chung-Che Chou

- 6. Structural Design of the Tallest Building in Korea Jong-Ho Kim, Yeonki Jung, Jidong Kim, Jaehyuk Lee, and Taejin Kim
- Study on Dynamic Behavior of High-Rise Base-Isolated Building Based on Its Responses Recorded during The 2011 Tohoku-Oki Earthquake Kazuhiro Matsuda and Kazuhiko Kasai
- 8. Experimental Study of a Piezoelectric Sliding Isolation System for Seismic Protection of Equipment
  - Lyan-Ywan Lu and Kuan-Wen Pong
- 9. Seismic Performance of Structures Base-Isolated with Rocking Bearing Chin-Tung Cheng and Chih-Hong Chao
- 10. New Structural System with Double Reinforced Concrete Beams for Long-Span Structures Jae-Man Lee, Kil-Hee Kim, Kwang-Man Kim, Yong-Jun Lee, and Jung-Yoon Lee

## 12:20-13:30 Lunch

13:30-15:00 Session C: Steel Structures (Bldg. #39, B103)

Chairman: Prof. Susumu Kono and Prof. Thomas Kang

- 11. Seismic Performance of Low-Rise Steel Intermediate Moment Resisting Frames Hyung-Joon Kim and Jin-Young Park
- 12. Experimental Evaluation of Composite Columns Confined by Multiple Interlocking Spirals Ching-Yu Liang, Cheng-Chih Chen, Cheng-Chiang Weng, Samuel Yen-Liang Yin, and Jui-Chen Wang
- 13. Cyclic Loading Test on RHS Columns under Bi-directional Horizontal Forces and Constant Axial Force

Takanori Ishida, Yuko Shimada, and Satoshi Yamada

- 14. Seismic Tests of Large-Scale Steel Energy Dissipating Braces: Dual-Core Self-Centering Brace and Sandwiched Buckling-Restrained Brace
  - Chung-Che Chou, Ping-Ting Chung, and Yu-Tsen Cheng
- 15. A Case Study of Seismic Performance of Special Concentrically Braced Frame with Strongback System

Chui-Hsin Chen, Yao Tang, and Yi-Rung Tsai

15:00-15:20 Coffee Break

15:20-16:50 Session D: Damping Systems (Bldg. #39, B103)

Chairman: Prof. Cheng-Chih Chen and Prof. Hyung-Joon Kim

- 16. Mitigation of Off-Tuning Effect of Floor Vibration by Using Asymmetric Tuned Mass Damper Sung-Yong Kim, Cheol-Ho Lee, and Dong-Guen Lee
- 17. Performance Verification of a Leverage-Type Stiffness-Controllable Mass Damper Shih-Yu Chu, Lyan-Ywan Lu, Shih-Wei Yeh, and Chih-Hua Peng
- 18. A Fast Computer Vision Method for Liquid Height Measurement of TLCDs Junhee Kim, Chan-Soo Park, and Kyung-Won Min
- 19. An Assessment for the Design of High-Damping Rubber Bearings Using Bilinear and Effective Linear Models
  - Pei-Chuan Chao and Yin-Nan Huang
- 20. FE Analysis of Multi-Storey RC Frames with Energy Dissipating SIM panels Yuri Totoev and Zhiyu Wang

16:50-17:10 Group Photo

17:20-18:20 Bus from SNU Bldg. #39 to "Hotel Novotel Seoul Ambassador Gangnam"

18:20-21:00 Banquet at Restaurant (Bordeaux Hall in the Hotel Novotel Seoul Ambassador Gangnam)

21:00-21:30 Bus from "Hotel Novotel Seoul Ambassador Gangnam" to Hoam Faculty House

## Saturday, September 20

08:30 Bus from Hoam Faculty House to Bldg. #39, B103 Multi-purpose Conference Hall (Two SNU students will be waiting in front of the main building of Hoam Faculty House)

09:00-10:30 Session E: Masonry Structures and Infilled Frames (Bldg. #39, B103)

Chairman: Prof. Shyh-Jiann Hwang and Prof. Kazuhiro Matsuda

- 21. Multi-Level Evaluation of Stone Pagodas under Earthquake Loading Namhee-Kim Hong and Sung-Gul Hong
- 22. Seismic Performance Evaluation of Earthquake-Damaged Buildings in Indonesia Affected by Brick Masonry Infill

Maidiawati, Yasushi Sanada, and Jafril Tanjung

- 23. Analytical Model for Capacity Curve of Confined Masonry Wing-Walls Yi-Hsuan Tu, Tsung-Hua Chuang, and Hsing-Yu Yeh
- 24. Proposal of Simplified Backbone Curve for URM Wall Infilled RC Frame Ho Choi, Kiwoong Jin, and Yoshiaki Nakano
- 25. Seismic Fragility of Lightly Reinforced Concrete Frames with Masonry Infill Jong-Su Jeon, Ji-Hun Park, and Reginald DesRoches

10:30-10:50 Coffee Break

10:50-12:20 Session F: Reinforced Concrete Structures II (Bldg. #39, B103)

Chairman: Prof. Lyan-Ywan Lu and Prof. Yasushi Sanada

- 26. Seismic Evaluation of RC Slab-Column Frames and Proposed Changes to ACI 369 & ASCE 41 Thomas H.-K. Kang, Amy C. Hufnagel, YeongAe Heo, and Sohyun Moon
- 27. Structural Experiments of One-Story One-Bay R/C Moment Resisting Frames with Non-Structural Walls

Rok-Hyun Yoon, Yasushi Sanada, Suguru Suzuki, Takumi Akahori, and Hiroshi Kuramoto 28. Experimental Study of Alternative Detailing for Coupling Beams

- Shyh-Jiann Hwang, Erwin Lim, Chih-Hung Cheng, Ting-Wei Wang, and Yu-Hsuan Chang
- 29. Analytical Study on Seismic Behavior of Horizontal Hybrid Structure of Wood and RC Yoshihiro Yamazaki and Hiroyasu Sakata
- Cyclic Testing of Precast High-Strength Reinforced Concrete Columns with Welded Transverse Reinforcement Yu-Chen Ou and Harun Alrasyid

12:20-13:20 Lunch

13:20-13:40 Closing Session

Prof. Susumu Kono

Prof. Chung-Che Chou

Prof. Cheol-Ho Lee

14:00-17:00 Bus from SNU Bldg. #39 to Technical tour site (Lotte World Tower construction site) 17:00-18:00 Bus from Lotte World Tower to Hoam Faculty House (Optional)