

**The 15th Korea-Japan-Taiwan Joint Seminar on Earthquake Engineering for  
Building Structures, Taipei, Taiwan, November 28-29, 2013**

Thursday, November 28

**08:00-08:30 Registration**

**08:30-09:00 Opening Session**

*Prof. Chung-Che CHOU*

*Prof. Yasushi SANADA*

*Prof. Cheol-Ho LEE*

*Prof. Jia-Yush YEN*

*Prof. Kuo-Chun CHANG*

**09:00-10:40 Session A: Reinforced Concrete Structures**

*Chairman: Prof. Hiroshi KURAMOTO and Prof. Yu Chen OU*

- 1. Investigation of Shear-Dominated Response of Multi-Story RC Structural Walls with Eccentric Openings**  
*Rafik Taleb, Masanobu Sakashita and Susumu Kono*
- 2. Analytical investigations on the seismic response of an RC box-type wall building structural system**  
*Kyung Ran Hwang and Han Seon Lee*
- 3. Seismic Capacity Evaluation Of R/C Frame With URM Infill Focused On Diagonal Structure Mechanism**  
*Ho Choi, Ki-Woong Jin and Yoshiaki Nakano*
- 4. Study on Sliding Shear Failure of Reinforced Concrete Bearing Wall**  
*Masanori Tani, Susumu Kono and Hiroshi Fukuyama*
- 5. Prediction of Shear Strength for Reinforced Concrete Short Columns Using High Strength Material**  
*Yi-An Li and Shyh-Jiann Hwang*

**10:40-11:10 Coffee Break**

**11:10-12:30 Session B: Steel Framed Structures**

*Chairman: Prof. Cheol-Ho LEE and Prof. Cheng-Chih CHEN*

- 6. Effects of Static Loading Sequences on Testing Capacity of Braces in Concentrically Braced Steel Frame System**  
*Chui-Hsin Chen and Huai-Kuo Hu*
- 7. Seismic behavior of self-centering designed Concentrically Braced Frame**  
*Chin-Tung Cheng and Chia-Yi Yen*
- 8. Numerical Analysis of Collapsing Behavior for Multi-Story Steel Moment Frames Considering Strength Degradation by Local Buckling**  
*Seiji Mukaide and Motohide Tada*
- 9. Seismic Responses and Finite Element Analyses of A Novel Steel Dual-Core Self-Centering Braced Frame**  
*Chung-Che Chou, Ying-Chuan Chen, Pham Dinh Hai, Alexis Rafael Ovalle Beato, Tsung-Han Wu*

**12:30-13:40 Lunch**

**13:40-15:20 Session C: Reinforced Concrete Members**

*Chairman: Prof. Han Seon LEE and Prof. Yin-Nan HUANG*

- 10. Lateral-Force Resisting Mechanisms of Flexure-Dominant Multi-Story Structural Walls with Soft-First-Story**  
*Yuki Idosako, Masanobu Sakashita, Xiaoshan Feng and Minehiro Nishiyama*
- 11. Effect Of Axial Compression On Shear Strength Of Reinforced Concrete Columns With High-Strength Steel And Concrete**  
*Yu Chen Ou and Dimas Pramudya Kurniawan*
- 12. Bi-Directional Lateral Behavior of Post-Tensioned Corner Slab-Column Connections**  
*Thomas Kang*
- 13. Seismic Performance of Pre-tensioned Beams Using Steel-Fiber Reinforced Concrete**  
*Mitsuya Mori, HyeongJae Yoon, Minehiro Nishiyama*
- 14. Analytical Model For Load-Displacement Curve Of Slender Masonry Piers**  
*Yi-Hsuan Tu, Tsung-Hua Chuang*

**15:20-15:50 Coffee Break**

**15:50-17:10 Session D: Steel Connections**

*Chairman: Prof. Seiji MUKAIDE and Prof. Chin-Tung CHENG*

- 15. Prediction of Fracture of Steel Moment Connection by Cyclic Loading with Varying Deformation Amplitude**  
*Kouhei Takatsuka, Keiichiro Suita and Tsuyoshi Tanaka*
- 16. Prediction of Low-Cycle Fatigue Fracture of Welded Seismic Steel Moment Connections: A Continuum Damage Mechanics Approach**  
*Jae-Hoon Kim, Cheol-Ho Lee, Dae-Kyoung Kim and Dong-Guen Lee*
- 17. Strength of Self-Drilling Screw Connection used in Steel Framed House Systems Nominal Strength of Hold-Down Component Connection**  
*Atsushi Sato, Takuya Toriyama, Hisayuki Okada, and Tetsuro Ono*
- 18. Self-centering of Post-tensioned Column Base**  
*Cheng-Chih Chen, Huan-Wei Lin and Rung-Shiuan Tsai*

**17:20-18:00 Bus from NCREC to Restaurant**

**18:00-20:30 Banquet at Restaurant**

**20:30-21:00 Bus from Restaurant to Hotel**

Friday, November 29

**09:00-10:40 Session E: Reinforced Concrete Connections**

*Chairman: Prof. Hong-Gun PARK and Prof. Shyh-Jiann HWANG*

- 19. Punching Shear Design Method of KCI 2012**  
*Kyoung-Kyu Choi and Hong-Gun Park*
- 20. Confinement Efficiency of High Strength Steel Fiber in High Strength Concrete**  
*Wen-Cheng Liao, Yao-Jen Kuo and En-Jui Liu*
- 21. Structural Behavior of RC Beam-Column Assemblages Subjected to Cyclic Loading**  
*Jung-Yoon Lee, Jong-wook Park, and Mohamad Y. Mansour*
- 22. Seismic Strengthening with a New Steel Device for R/C Exterior Beam-Column Joints**  
*Yuebing LI, Yasushi Sanada, Yasuhiro Watanabe and Takuya Tomonaga*
- 23. Collapse Capacity of Steel Moment-Resisting Frames with Hysteretic Energy Dissipating Systems Designed According to ASCE 7-10**  
*Hyung-Joon Kim Dong-Hyeon Shin and Jin-Young Park*

**10:40-11:00 Coffee Break**

**11:00-12:40 Session F: Seismic Device / Performance /Risk Analysis**

*Chairman: Prof. Minehiro NISHIYAMA and Prof. Wen-Cheng LIAO*

- 24. Hybrid Mass Dampers for Reducing Wind Responses of Buildings**  
*Kyung-Won MIN, Jae-Sung Heo, Young-Wook Kim*
- 25. A Leverage-Type Stiffness-Controllable Mass Damper for Vibration Mitigation of Structures**  
*Shih-Yu Chu, Lyan-Ywan Lu, Shih-Wei Yeh and Chih-Hua Peng*
- 26. Load-Drift Relationship of Dowel Bar in Reinforced Concrete Member**  
*Susumu Takahashi, Eiji Anoda, Toshikatsu Ichinose*
- 27. An Experimental Study on Ductile Behavior of Diagrid Structure**  
*Yong-Wan Kim, Myoung-Kyu Lee, Tae-jin Kim, and Byung-Min Cho*
- 28. Response-Based Probabilistic Risk Assessment Of Nuclear Power Plants**  
*Yin-Nan Huang, Ying-Hsiu Shen, Chang-Ching Chang and Ching-Ching Yu*

**12:40-13:30 Lunch**

**13:30-14:00 Closing Session**

*Prof. Chung-Che CHOU*

*Prof. Yasushi SANADA*

*Prof. Cheol-Ho LEE*

**14:00-17:00 Technical Tour**