

The Eighth Taiwan-Korea-Japan Joint Seminar on Earthquake Engineering for Building Structures (SEEBUS 2006)

Nagoya, Japan, December 4-5, 2006

Seminar Program (Modified)

Monday, December 4

08:30 - 08:40 Registration

08:40 - 08:50 Opening Session

Shang-Hsien HSIEH
Han-Seon LEE
Hiroshi KURAMOTO

08:50 - 10:30 SESSION A: Beams

Chairman: Hee-Cheul KIM and Cheng-Chih CHEN

- (1) HYSTERETIC CHARACTERISTICS OF PRECAST PRESTRESSED CANTILEVER BEAMS WITH GRADED COMPOSITE STRANDS
Yukako ICHIOKA, Susumu Kono, Minehiro NISHIYAMA, Suguru ARAKANE and Fumio WATANABE
- (2) EXPERIMENTAL AND ANALYTICAL VERIFICATION ON DESIGN APPROACHES OF RC TRANSFER GIRDERS HAVING SHORT END SHEAR SPAN
Dong-Woo KO, Sung-Min SUN and Han-Seon LEE
- (3) SHEAR STRENGTH AND DEFORMATION CAPACITY OF REINFORCED CONCRETE BEAMS
Hong-Gun PARK, Kyung-Kyu CHOI and Chong-chul PARK
- (4) FLEXURAL SHEAR DEFORMABILITY OF STRUCTURAL CONCRETE
Sung-Gul HONG, Sang-Ki JANG and Dong-Hun LEE
- (5) FORCED VIBRATION TEST FOR SIMULATING THE EARTHQUAKE RESPONSE OF A REAL-SCALED BUILDING STRUCTURE
Sang-Hyun LEE, Eun Churn PARK, Sung-Kyung LEE, Eunjong YU, Kyung-Jo YOUN, Kyung-Won MIN, Doo-Hun KIM and Young-Chan KIM

10:30 - 10:50 Coffee Break

10:50 - 12:30 SESSION B: Response Control

Chairman: Hitoshi TANAKA and Yong-Seok KIM

- (1) MECHANICAL BEHAVIOR OF BOLTED STUD-TYPE DAMPER WITH STEEL SHEAR PANELS
Shintaro MATSUO and Yusuke SAKAI

(2) EXPERIMENTAL VERIFICATION OF DESIGN CRITERIA OF KNEE BRACE DAMPER
Yuji KOETAKA, Yasuki BYAKUNO and Kazuo INOUE

(3) CONTROL OF FLOOR VIBRATIONS USING TUNED MASS DAMPER
Sang-Kyung AHN, Dong-Guen LEE and Jae-Yong CHUNG

(4) SHAKE TABLE TESTS OF RC FRAME WITH SHAPE MEMORY ALLOY BRACING BARS
Wen-I LIAO, Y.L. MO, Chia-Ming CHANG and Chin-Hsiung LOH

(5) INVESTIGATION ON THE SEISMIC CHARACTERISTICS OF THE BEDROCK EARTHQUAKE MOTIONS
Yong-Seok KIM

12:30 - 13:30 Lunch

13:30 - 15:30 SESSION C: Columns and Shear Wall

Chairman: Shyh-Jiann HWANG and Yuji KOETAKA

(1) CRACK WIDTH OF REINFORCED CONCRETE COLUMNS SUBJECTED TO SEISMIC FORCE
Ichizo KISHIMOTO and Yoshiteru OHNO

(2) MOMENT CAPACITY ESTIMATION OF PRECAST CONCRETE COLUMNS ASSEMBLED BY POST-TENSIONING
Masanori TANI and Minehiro NISHIYAMA

(3) LATERAL LOAD-DISPLACEMENT ANALYSIS OF COMPOSITE EWECs COLUMNS
FAUZAN and Hiroshi KURAMOTO

(4) DAMAGE EVALUATION OF MULTI-STORY SHEAR WALL WITH AN ADJACENT FRAME CONSIDERING VERTICAL MOVEMENT OF FOUNDATIONS
Masanobu SAKASHITA, Kyohei MURAKAMI, Susumu KONO, Hitoshi TANAKA and Fumio WATANABE

(5) EXPERIMENTAL INVESTIGATIONS ON THE LATERAL RESISTANCE CAPACITY ENHANCEMENT OF A SHEAR WALL STRUCTURAL SYSTEM
Kyoung-Hun LEE, Jin-Young PARK, Young-Hak LEE, Won-Kee HONG and Hee-Cheul KIM

(6) PREDICTION OF ULTIMATE STRENGTH AND DEFLECTION OF DOUBLE-CURVATURE LOW RISE SHEAR WALLS
Ika BALI and Shyh-Jiann HWANG

15:30 - 15:50 Coffee Break

15:50 - 17:50 SESSION D: Frame Analysis

Chairman: Sung-Gul HONG and Susumu KONO

(1) THE ANALYSIS OF THE RC FRAME WITH RC WALL BY USING THE EQUIVALENT COLUMN MODEL
Yeou-Fong LI and Cheng-Wei CHEN

- (2) PREDICTION OF SEISMIC DAMAGE FOR BEAMS AND JOINT PANELS IN STEEL MOMENT FRAMES
Seiji MUKAIDE, Susumu KUWAHARA and Motohide TADA
- (3) COLLAPSE-RESISTANT DEMAND ANALYSIS OF STEEL MOMENT FRAMES WITH POST-NORTHRIDGE CONNECTIONS
Taewan KIM, Taejin KIM and Jinkoo KIM
- (4) EFFECTS OF GROUND MOTION PARAMETERS ON PERFORMANCE EVALUATION OF STEEL WELDED BEAM-TO-COLUMN CONNECTIONS
Heui-Yung CHANG, Keh-Chyuan TSAI and Ker-Chun LIN
- (5) VECTOR FORM INTRINSIC FINITE ELEMENT METHOD OF THE FAILURE AND COLLAPSE OF SPACE FRAME UNDER SEISMIC
Ren-Zuo WANG, Chung-Yue WANG and Keh-Chyuan TSAI
- (6) SEISMIC RESISTANT SELF-CENTERING MOMENT CONNECTIONS WITH BOTTOM FLANGE BUCKLING-RESTRAINED ENERGY DISSIPATORS
Chung-Che CHOU and Yu-Jen LAI

18:30 - 20:30 Banquet at Mielparque Nagoya

Tuesday, December 5

08:15 - 08:45 Bus from Mielparque Nagoya to Construction Sites

09:00 - 12:00 Visit to Construction Sites of Existing Buildings Retrofitted by Base Isolation in Nagoya

12:00 - 12:30 Bus from Construction Sites to Mielparque Nagoya

12:30 - 13:30 Lunch

13:30 - 14:50 SESSION E: Frame Test

Chairman: Chung-Che CHOU and Kyung-Won MIN

- (1) SEISMIC PERFORMANCE OF RC STRUCTURES STRENGTHENED WITH PRECAST PRESTRESSED CONCRETE BRACES
Susumu KONO and Fumio WATANABE
- (2) IN-SITE PUSH OVER TEST OF EXISTING AND RETROFITTED SCHOOL BUILDINGS IN TAIWAN
Yi-Hsuan TU and Shyh-Jiann HWANG
- (3) TORSIONAL STRENGTH OF REINFORCED CONCRETE BEAMS CONSIDERING TENSION STIFFENING EFFECT
Jung-Yoon LEE, Ji-Hyun Kim and Hyun-Bok Hwang
- (4) DATA MODEL AND SOFTWARE TOOLS FOR MANAGING EARTHQUAKE ENGINEERING EXPERIMENTAL DATA

Shang-Hsien HSIEH, Wen-Hsiang TU, Chun-Tang HUANG, Yuan-Sen YANG, Wei-Chung CHENG and Keh-Chyuan TSAI

14:50 - 15:10 Coffee Break

15:10 - 16:30 SESSION F: Beam-Column Joint

Chairman: Minehiro MISHIYAMA and Yeou-Fong LI

- (1) CYCLIC RESPONSE OF ECCENTRIC BEAM-COLUMN CORNER CONNECTIONS WITH TRADITIONAL AND HEADED REINFORCEMENT
Hung-Jen LEE, Si-Ying YU and Jen-Wen KO
- (2) CYCLIC BEHAVIOR OF STEEL COLUMN-TREE MOMENT CONNECTIONS WITH TAPERED BEAM FLANGES
Cheng-Chih CHEN and Chun-Chou LIN
- (3) PUNCHING SHEAR STRENGTH AND POST-PUNCHING BEHAVIOR OF CFT COLUMN TO RC FLAT PLATE CONNECTIONS
Cheol-Ho LEE Jin-Won KIM, Jin-Gyu SONG and Eunjong YU
- (4) EVALUATION OF BEAM YIELD DEFORMATION IN RC INTERIOR BEAM AND COLUMN SUBASSEMBLAGES
Masaru TERAOKA, Yoshikazu KANO and Satoshi SASAKI

16:30 - 16:50 Closing Session