

2021



# SEEBUS

Suwon, Korea  
October 15, 2021

## Coordinators

Prof. Tzu Kang Lin (National Chiao-Tung University, Taiwan)

Prof. Atsushi Sato (Nagoya Institute of Technology, Japan)

Prof. Jung-Yoon Lee (Sungkyunkwan University, Korea)

**The 22<sup>nd</sup> Taiwan-Japan-Korea Joint Seminar on Earthquake Engineering for Building Structures**



Organized by School of Civil, Architectural Engineering and  
Landscape Architecture, Sungkyunkwan University

Edited by Jung-Yoon Lee, Min-Jae Kang

**The 22<sup>nd</sup> Taiwan-Japan-Korea Joint Seminar on Earthquake  
Engineering for Building Structures  
(SEEBUS-2021)**

**Curriculum Vitae**


**Suwon, Korea  
October 15, 2021**


**Coordinators**

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## Curriculum Vitae (Taiwan)


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Research Interest	Structural Health Monitoring、Smart Structure、Bridge Engineering	
Title of Paper	Prediction of Smooth Hysteretic Model Parameters Using Support Vector Regression	


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Research Interest	(1) Shear strength of reinforced concrete members (2) Seismic design and retrofit of reinforced concrete structures	
Title of Paper	None	


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Research Interest	(1) Seismic isolation and energy dissipation, (3) Seismic performance assessment for structural systems, (2) Structural control for earthquake engineering, (4) Smart structural systems.	
Title of Paper	None	




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Research Interest	(1) Composite Structures (2) Earthquake Engineering (3) Large-Scale Structural Tests	
Title of Paper	Seismic Behavior of Low-yield Steel and Concrete Composite Shear Walls subjected to Earthquake-type Loading	


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Research Interest	Seismic behavior, design and analysis of reinforced concrete members and structures	
Title of Paper	Seismic shear behavior of high-strength reinforced concrete column-eccentric steel beam joints	


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Research Interest	Seismic shear behavior reinforced concrete structures with high-strength reinforcement and concrete, Reinforced concrete column–steel beam (RCS) joints	
Title of Paper	Seismic shear behavior of high-strength reinforced concrete column-eccentric steel beam joints	


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Research Interest	1. Performance assessment of buildings 2. Seismic risk assessment of nuclear power plants 3. Passive control of structures	
Title of Paper	An Experimental Study on Seismic Behavior of Steel-Plate Composite Walls with Axial Compression Force	


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Research Interest	Life-cycle Performance Assessment of Infrastructure Maintenance Strategy of Infrastructure Reliability-based Durability Design for RC Structures	
Title of Paper	Preliminary Seismic Assessment for Low-rise RC Building Structures Including Corrosion-induced Deterioration	


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Research Interest	Design and Analysis of Steel Structures, Earthquake Engineering, Innovative Seismic Load Resisting Systems, Seismic Performance Assessment, Structural Testing.	
Title of Paper	EXPERIMENTAL DEVELOPMENT OF CORED MOMENT RESISTING STUB-COLUMN DAMPERS	


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Research Interest	(1) Seismic Behavior of Steel Structure (2) Development of Resilient Structures and Systems (3) Application of Non-Conventional Material to Seismic Retrofitting of Structures	
Title of Paper	Finite Element Analysis of Hollow Square Steel Brace with Infill Reinforcement under Cyclic Loading	

Name	Hung-Jen LEE	
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Position	Professor and Department Chair	
Organization	Department of Civil and Construction Engineering, National Yunlin University of Science and Technology	
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Research Interest	(1) Seismic design of reinforced concrete structures, (2) Laboratory testing on reinforced concrete structures and elements, (3) Behavior of beam-column joints (4) Bond and anchorage of high-strength reinforcement	
Title of Paper	Tests and Nonlinear Strain Analysis of Mechanical Splices for High-Strength Reinforcement in Special Moment Frames	


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Research Interest	(1) Behavior of reinforced concrete columns and walls (2) Seismic assessment of reinforced concrete buildings (3) Seismic behavior of confined masonry buildings (4) Lightweight structure design	
Title of Paper	Loading tests for RC frames retrofitted by attaching steel members	


Name	Shih-Yu Joseph CHU	
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Research Interest	(1) Implementation and Design of Structural Control Systems (2) Development of Real-Time Dynamic Hybrid Testing Techniques (3) Structural Health Monitoring and System Identification	
Title of Paper	Multiple Criteria Decision Making on Damage Assessments of Target Building Array Subjected to Minor and Destructive Earthquakes	

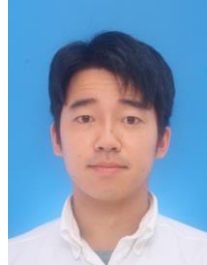
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Research Interest	High Performance Fiber Reinforced Concrete Materials and Structures	
Title of Paper	SEISMIC RETROFITTING OF MASONRY-INFILLED RC FRAMES USING UHPC SHOTCRETE	

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Research Interest	Structural Retrofitting and UHPC Materials and Structures	
Title of Paper	Seismic Retrofitting of Masonry-Infilled RC Frames Using UHPC Shotcrete	


## Curriculum Vitae (Japan)


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Research Interest	Steel Structure, Cold-Formed Steel, Light-Gauge Structure, Steel Beam-Column		
Title of Paper	Attendance		


Name	Takuro Hayashi	
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Position	Master graduate student	
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Research Interest	Structural Performance of Beam-column of Steel Structure	
Title of Paper	EXPERIMENTAL STUDY OF THE BEAM-COLUMN WITH DIFFERENT WIDTH-TO-THICKNESS RATIO	


Name	Soya Nakatsuka	
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Research Interest	Structural Performance of Beam-column of Steel Structure	
Title of Paper	Mathematical Modeling of Steel Beam-Column under Compressive Axial Force with One End Monotonic Moment	





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Research Interest	Reinforced and prestressed concrete buildings, precast concrete, seismic design, structural materials	
Title of Paper	Attendance	


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Research Interest	Evaluation of seismic behavior and performance of reinforced concrete and prestressed concrete buildings	
Title of Paper	Attendance	


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Research Interest	Seismic Design of Reinforced and Prestressed Concrete Buildings Life-cycle based Design of Precast Geopolymer Concrete Structures	
Title of Paper	Attendance	


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Research Interest	Seismic performance of reinforced concrete structure Seismic performance of steel structure	
Title of Paper	NUMERICAL ANALYSIS ON SEISMIC PERFORMANCE OF INDUCTION-HEATED CURVED BRACES	


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Research Interest	Seismic Retrofit of Reinforced Concrete structure, Optimal Seismic Retrofit		
Title of Paper	CYCLIC LOADING TESTS ON REINFORCED CONCRETE COLUMN STRENGTHENED WITH UFC PANELS		


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Research Interest	Seismic performance of reinforced concrete structure Seismic performance of prestressed concrete structure	
Title of Paper	Attendance	


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Research Interest	(1) Structural Stability, (2) Thin-walled Structures, (3) Cold-Formed Steel, (4) Structural Engineering, (5) Optimization	
Title of Paper	DISTORTIONAL BUCKLING OF COLD-FORMED CHANNEL MEMBER UNDER COMPRESSION	

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Research Interest	(1) Structural Stability, (2) Structural Engineering	
Title of Paper	Effect of Restraint for Beams Connected to the Girders on Buckling Behavior of I-Shaped Beams with Continuous Lateral Restraints on Upper Flange	


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Research Interest	(1) Seismic Design, (2) Passive Control Design, (3) Steel Structure, (4) Local Buckling		
Title of Paper			


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Research Interest	(1) Structural Stability, (2) Cold-Formed Steel	
Title of Paper	Buckling Strength Evaluation Method of Plate on Elastic Foundation and its Application to Sandwich Panels	


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Research Interest	(1) Seismic isolation Design, (2) Vibration Control Design, (3) Mixed Structure		
Title of Paper	Base isolation and mid-story concentrated vibration control system		


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Research Interest	(1) Performance based seismic design of RC Structures (2) Precast/Prestressed Concrete Structures		
Title of Paper	Attendance		





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Research Interest	Earthquake engineering, Reinforced Concrete structures, Finite element modelling and nonlinear analysis	
Title of Paper	Attendance	

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Research Interest	(1) Seismic Design (2) Rocking wall (3) Reinforced Concrete Structures		
Title of Paper	Evaluation of Structural Performance of Unbonded Post tensioned Precast Concrete Walls		


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Research Interest	(2) Seismic Design (2) Steel-Concrete Composites (3) Reinforced Concrete Structures (4) Numerical Modeling	
Title of Paper	Seismic performance of Cast-in-place Concrete-filled Steel Tube Piles	


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Research Interest	Earthquake Engineering, Reinforced Concrete Structures	
Title of Paper	Attendance	


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Research Interest	(1) Reinforced Concrete Structure (2) High Strength Concrete and Shear Mechanism	
Title of Paper	Attendance	


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Research Interest	Seismic Design of Concrete Buildings, High Strength Concrete, Shear Mechanism, Ductility Improvement of Concrete Members		
Title of Paper	Attendance		


## Curriculum Vitae (Korea)


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Research Interest	(1) Shear and torsional behavior of RC structures, (2) Seismic design of RC structures	
Title of Paper	Attendance	

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Research Interest	Steel Structures, Seismic Design of Non-Structural Elements	
Title of Paper	Shake-Table Testing of Seismic and Non-Seismic Suspended Ceiling Systems	

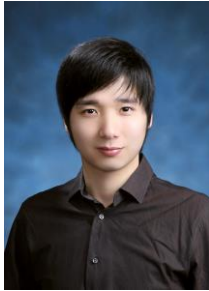
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Research Interest	Performance Based Seismic Design, Seismic Design of Structural/Non-Structural Components, Nonlinear Analysis	
Title of Paper	SEISMIC DESIGN OF NON-STRUCTURAL ELEMENTS IN NEGATIVE PRESSURE WARDS	


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Research Interest	Experiment and analysis of reinforced concrete and composite structures Seismic evaluation and performance-based design of buildings	
Title of Paper	Nonlinear modeling of reinforced concrete coupling beams	


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Research Interest	(1) Application of ultra-high performance concrete, (2) Digital concrete, (3) Graphic statics.	
Title of Paper	Attendance	


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Research Interest	Inelastic analysis and seismic design of RC and composite structures	
Title of Paper	PLASTIC HINGE MODEL OF BEAM-COLUMN JOINTS	




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Research Interest	Steel Design, Steel Structures	
Title of Paper	Shake-Table Testing of Seismic and Non-Seismic Suspended Ceiling Systems	


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Research Interest	(1) Size effect of RC structures (2) Shear and bond behavior of reinforced concrete structures	
Title of Paper	Evaluation of Torsional Strength of Reinforced Concrete beams Subjected to Bending, Shear and Torsion	


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Research Interest	(1) Dynamic Effects on Structures (Seismic, Wind, Blast, Impact) (2) Design of Reinforced and Prestressed Concrete Structures	
Title of Paper	Head-Restraining Reinforcement in Knee Joints Subject to Reversed Cyclic Loading	

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Research Interest	(1) Combined Loading behavior of RC structures (2) Shear and bond behavior of reinforced concrete structures,	
Title of Paper	Evaluation of Torsional Strength of Reinforced Concrete beams Subjected to Bending, Shear and Torsion	


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Research Interest	Composite structures, Seismic design/analysis, High-rise core wall design/construction method	
Title of Paper	Flexural and shear strengths of composite walls with boundary elements of steel U-sections	

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Research Interest	(1) Dynamic responses of building structures with a damper system (2) Behavior and performance of RC structures in shear and torsion	
Title of Paper	Evaluation of Torsional Strength of Reinforced Concrete beams Subjected to Bending, Shear and Torsion	


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Research Interest	(1) Shear and bond behavior of reinforced concrete structures, (2) Shear and torsional behavior of RC structures	
Title of Paper	Evaluation of Torsional Strength of Reinforced Concrete beams Subjected to Bending, Shear and Torsion	

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Research Interest	(1) Vibration control, (2) Steel and composite structures	
Title of Paper	STRUCTURAL IDENTIFICATION OF STRENGTH DEGRADING HYSTERESIS USING NONDIMENSIONALIZED BOUC-WEN MODEL	

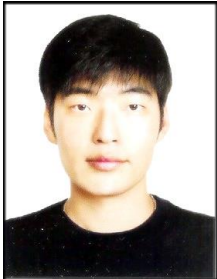
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Research Interest	Performance Based Earthquake Engineering, Structural Design of Steel Structures Seismic Design of Nonstructural Components, Structural Design of Tall Buildings	
Title of Paper	SEISMIC DESIGN OF NON-STRUCTURAL ELEMENTS IN NEGATIVE PRESSURE WARDS	


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Research Interest	Steel Structures, Seismic Design, High Performance Steel, Tubular Joints, and Fire Design	
Title of Paper	Shake-Table Testing of Seismic and Non-Seismic Suspended Ceiling Systems	

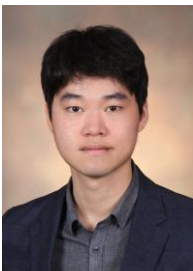
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Research Interest	Seismic performance of precast and prestressed structural systems, and shear and torsion in concrete structures	
Title of Paper	Seismic Performance and Strategic Design Method of Precast Intermediate Shear Wall	

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Research Interest	(1) Seismic analysis and design of building structures. (2) Efficient analytical models using super-elements.	
Title of Paper	Attendance	



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Research Interest	(1) Structural performance of RC members (2) Performance evaluation of RC structures using industrial by-products	
Title of Paper	Evaluation of Torsional Strength of Reinforced Concrete beams Subjected to Bending, Shear and Torsion	

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Research Interest	(1) Earthquake Engineering of Building Structures (2) Numerical Modeling for Nonlinear Behavior of Reinforced Concrete (3) Reinforced Concrete Design (4) Steel-Concrete Composite Design	
Title of Paper	Flexural and shear strengths of composite walls with boundary elements of steel U-sections	

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Research Interest	Design of Protective Structures for Hybrid Disaster, Seismic Analysis and Performance Based Design, Extreme loading for buildings	
Title of Paper	SEISMIC DESIGN OF NON-STRUCTURAL ELEMENTS IN NEGATIVE PRESSURE WARDS	

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Research Interest	Finite element analysis, and design and analysis of RC and PSC Structures	
Title of Paper	Seismic Performance and Strategic Design Method of Precast Intermediate Shear Wall	

**The 22<sup>nd</sup> Taiwan-Japan-Korea Joint Seminar on Earthquake  
Engineering for Building Structures**

**(SEEBUS-2021)**

**Seminar Program**

**Suwon, Korea**

**October 15, 2021**

**Coordinators**

Prof. Tzu Kang Lin (National Chiao-Tung University, Taiwan)

Prof. Atsushi Sato (Nagoya Institute of Technology, Japan)

Prof. Jung-Yoon Lee (Sungkyunkwan University, Korea)

# Seminar Program

\* : Korea and Japan time, ( ) : Taiwan time

*9:00-9:20 (8:00-8:20)	<b>Opening Session</b> Coordinators: Prof. Tzu Kang Lin (National Chiao-Tung University, Taiwan) Prof. Atsushi Sato (Nagoya Institute of Technology, Japan) Prof. Jung-Yoon Lee (Sungkyunkwan University, Korea)	
9:20-10:30 (8:20-9:30)	Session J1	Evaluation of Structural Performance of Unbonded Post-tensioned Precast Concrete Walls Presenter: Meika CHO (Tokyo Institute of Technology)
		Cyclic Loading Tests on Reinforced Concrete Columns Strengthened with UFC Panels Presenter: Sua LIM (Kyoto University)
		Mathematical Modeling of Steel Beam-Column under Compressive Axial Force with One End Monotonic Moment Presenter: Soya NAKATSUKA (Nagoya Institution of Technology)
		Buckling Strength and Buckling Behavior of I-Shaped Beams with Continuous Lateral Restraints on Upper Flange Presenter: Hiroto KAGESAWA (Tokyo Institute of Technology)
		Buckling Strength Evaluation Method of Plate on Elastic Foundation and Its Application to Sandwich Panels Presenter: Hinako MITSUHIRO (Tokyo Institute of Technology)
10:30-11:25 (9:30-10:25)	Session T1	Seismic Retrofitting of Masonry-Infilled RC Frames Using UHPC Shotcrete Presenter: Tuong-Dat-Dinh DO (National Cheng Kung University)
		Seismic Shear Behavior of High-Strength Reinforced Concrete Column-Eccentric Steel Beam Joints Presenter: Yu-Chen OU (National Taiwan University)
		Loading Tests for RC Frames Retrofitted by Attaching Steel Members Presenter: Yi-Hsuan TU (National Cheng Kung University)
		Preliminary Seismic Assessment for Low-Rise RC Building Structures Including Corrosion-Induced Deterioration Presenter: Chien-Kuo CHIU (National Taiwan University of Science and Technology)
11:25-11:40 (10:25-10:40)	<b>Group Photo and Coffee Break</b>	



11:40-12:35	Session K1	Nonlinear Modeling Parameters of Reinforced Concrete Coupling Beams Presenter: Tae-Sung EOM (Dankook University)
(10:40-11:35)		Seismic Performance and Strategic Design Method of Precast Intermediate Shear Wall Presenter: Decukhang (DK) LEE (Chungbuk National University)
		Evaluation of Torsional Strength of Reinforced Concrete Beams Subjected to Bending, Shear and Torsion Presenter: Dong-Hwan KIM (Kongju National University)
		Plastic Hinge Model of Beam-Column Joints Presenter: Hyeon-Jong HWANG (Konkuk University)
12:35-13:40 (11:35-12:40)	Lunch	
13:40-15:05	Session J2	Flexural Response Simulation of Cast-in-Place Concrete-Filled Steel Tube Piles Presenter: Naresh SUBEDI (Tokyo Institute of Technology)
(12:40-14:05)		Distortional Buckling of Cold-Formed Channel Member under Compression Presenter: Kazuya MITSUI (Tokyo Institute of Technology)
		Experimental Study of The Beam-Column with Different Width-to-Thickness Ratio Presenter: Takuro HAYASHI (Nagoya Institute of Technology)
		Theoretical Analysis of Elastic Local Buckling for H-Shaped Beams Subjected to End Moments and Uniformly Distributed Load Presenter: Tomoki NAKANO (Tokyo Institute of Technology)
		Base Isolation and Mid-story Concentrated Vibration Control System Presenter: Takehito KUMANO (Kyushu branch, Takenaka Corporation)
		Analytical Investigation into Seismic Performance of Induction-Heated Curved Brace Presenter: Yuan LIU (Kyoto University)
15:05-16:15	Session T2	In-Plane Cyclic Behavior of Shear-Critical Steel-Plate Composite Walls with Axial Loading Presenter: Yin-Nan HUANG (National Taiwan University)
(14:05-15:15)		Finite Element Analysis of Hollow Square Steel Brace with Infill Reinforcement under Cyclic Loading Presenter: Chui-Hsin CHEN (National Yang Ming Chiao Tung University)

		<p>Seismic Behavior of Low-Yield Steel and Concrete Composite Shear Walls Subjected to Earthquake-Type Loading Presenter: Chin-Tung CHENG (National Kaohsiung University of Science and Technology)</p> <p>Prediction of Smooth Hysteretic Model Parameters Using Support Vector Regression Presenter: Tzu-Kang LIN (National Chiao-Tung University)</p> <p>Experimental Development of Cored Moment Resisting Stub-Column Dampers Presenter: Po-Chien HSIAO (National Taiwan University)</p>
16:15-16:30 (15:15-15:30)	Coffee Break	
16:30-17:40 (15:30-16:40)	Session K2	<p>Flexural and Shear Strengths of Composite Walls with Boundary Elements of Steel U-Section Presenter: Hyeon-Jin KIM (Seoul National University)</p> <p>Head-Restraining Reinforcement in Knee Joints Subject to Reversed Cyclic Loading Presenter: Thomas H.-K. KANG (Seoul National University)</p> <p>Shake Table Testing of Braced and Friction-Added Suspended Ceiling Systems Presenter: Su-Chan JUN (Seoul National University)</p> <p>Structural Identification of Strength Degrading Hysteresis Using Nondimensionalized Bouc-Wen Model Presenter: Sung-Yong KIM (Changwon National University)</p> <p>Seismic Design of Non-Structural Elements in Negative Pressure Wards Presenter: Jinwon SHIN (Catholic Kwandong University)</p>
17:40-18:10 (16:40-17:10)	Closing Session	<p>Coordinators: Prof. Tzu Kang Lin (National Chiao-Tung University, Taiwan) Prof. Atsushi Sato (Nagoya Institute of Technology, Japan) Prof. Jung-Yoon Lee (Sungkyunkwan University, Korea)</p>



# **SEEBUS 2021**

## **Suwon, Korea**



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