

**Wednesday, September 18th, 14:00 - 15:00**

**Conference Hall**

**Session Title:** SE2 - Seismic assessment, retrofit and repairability for existing RC buildings

**Chair:** Wen-I Liao, Tsung-Chih Chiou

<b>14:00 - 14:15</b> SE2-017	SEISMIC PERFORMANCE OF NON-DUCTILE RC FRAME RETROFITTED USING POST-INSTALLED RC WALLS Speaker: Wen-I Liao
<b>14:15 - 14:30</b> SE2-032	SEISMIC UPGRADING OF SCHOOL BUILDINGS SINCE 1999 CHI-CHI EARTHQUAKE Speaker: Lap-Loi Chung
<b>14:30 - 14:45</b> SE2-030	SEISMIC RETROFIT IN STAGES FOR RESIDENTIAL BUILDINGS WITH SOFT AND WEAK BOTTOM STORY Speaker: Tsung-Chih Chiou

**Wednesday, September 18th, 13:30 - 15:00**

**Room 101**

**Session Title:** F2 - Soil liquefaction and ground failure

**Chair:** Jin-Hung Hwang, On-Lei Annie Kwok

<b>13:30 - 13:50</b> F2-001 (Invited Talk)	LIQUEFACTION ANALYSIS ADOPTING EFFECTIVE STRESS METHOD FOR PETOBO SITE POST $M_w$ 7.4 PALU EARTHQUAKE Speaker: Wayan Sengara
<b>13:50 - 14:05</b> F2-012	THE INFLUENCE OF DATA RESOLUTION OF CPTU TO SOIL LIQUEFACTION ANALYSIS AND COMPARISON WITH SPT-BASED EVALUATION- A CASE STUDY IN TAIPEI BASIN Speaker: Jiun- Shiang Wang
<b>14:05 - 14:20</b> F2-015	LIQUEFACTION RESISTANCE OF PENGHU CALCAREOUS SAND Speaker: On-Lei Annie Kwok
<b>14:20 - 14:35</b> F2-013	PARAMETRIC STUDY OF FACTORS AFFECTING TUNNEL UPLIFT INDUCED BY SOIL LIQUEFACTION Speaker: Jui-Ching Chou
<b>14:35 - 14:50</b> F2-011	A DISCUSSION ON THE DAMAGE MECHANISMS OF HUALIEN HARBOR IN 20180206 HUALIEN EARTHQUAKE Speaker: Yuan-Chang Deng
<b>14:50 - 15:05</b> F2-014	A PRELIMINARY STUDY OF THE LIQUEFACTION POTENTIAL OF GRAVELLY SOILS USING SHAKING TABLE TEST Speaker: Kuan-Yu Chen
<b>15:05 - 15:20</b> F2-019	LIQUEFACTION POTENTIAL EVALUATION BASED ON SPT, CPT AND PDC IN-SITU TESTS AND THEIR CORRELATIONS FOR KAOHSIUNG SOILS Speaker: Wen-Chih Liu

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**Wednesday, September 18th, 13:30 - 15:00**

**Room 103**

**Session Title:** J0 - Advanced method for simulation  
J1 - Advanced techniques for simulations in earthquake  
engineering

**Chair:** Sung-Yong Kim, Pei-Ching Chen

<b>13:30 - 13:45</b> J0-013	DEVELOPMENT OF ASYMMETRIC BOUC-WEN MODEL WITH LINEAR STRENGTH-DEGRADATION FUNCTIONS Speaker: Sung-Yong Kim
<b>13:45 - 14:00</b> J0-012	PARAMETRIC ANALYSIS OF A NONLINEAR TUNED MASS DAMPER ON A BRIDGE USING INCREMENTAL HARMONIC BALANCE METHOD Speaker: Chiu Jen Ku
<b>14:00 - 14:15</b> J1-012	ARTIFICIAL TRACTION BOUNDARIES FOR SOIL-STRUCTURE INTERACTION ANALYSES USING THE FINITE ELEMENT METHOD Speaker: Wen-Chia Yang
<b>14:15 - 14:30</b> J1-014	BRIEF INTRODUCTION OF SHAKING TABLE TEST OF 1/25 SCALE MODEL OF OFFSHORE WIND TURBINE WITH JACKET FOUNDATION Speaker: Bai-Yi Huang
<b>14:30 - 14:45</b> J0-011	A VERSATILE SMALL-SCALE STRUCTURAL LABORATORY FOR DEVELOPING ADVANCED EXPERIMENTAL METHODS Speaker: Pei-Ching Chen
<b>14:45 - 15:00</b> J1-011	SEISMIC CONTROL PERFORMANCE EVALUATION OF A SMART BASE-ISOLATED RAISED FLOOR SYSTEM USING REAL-TIME HYBRID SIMULATION Speaker: Pei-Ching Chen

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**Wednesday, September 18th, 14:20 - 15:50**

**Room 201**

**Session Title:** D3 - Velocity structures and site effect  
E0 - Near fault ground motion  
E1 - Characteristic of near fault ground motions

**Chair:** Yu-Chih Huang, Chun-Te Chen

<b>13:30 - 13:45</b> D3-012	JOINT MODELING OF RECEIVER FUNCTION AND HORIZONTAL-TO-VERTICAL SPECTRAL RATIO FOR SHALLOW SHEAR-WAVE VELOCITY STRUCTURE  Speaker: Che-Min Lin
<b>13:45 - 14:00</b> D3-013	SHALLOW SHEAR WAVE VELOCITY STRUCTURE IN TAIWAN INFERRED FROM MICROTREMOR ANALYSIS  Speaker: Chun-Te Chen
<b>14:00 - 14:15</b> D3-014	BUILDING 3-D SHALLOW S-WAVE VELOCITY MODEL BY SPATIAL INTERPOLATION IN THE TAIPEI BASIN  Speaker: Xue-Min Lu
<b>14:15 - 14:30</b> D3-011	SHALLOW CRUSTAL VELOCITY STRUCTURES BENEATH WESTERN FOOTHILLS OF TAIWAN REVEALED BY AMBIENT SEISMIC NOISE  Speaker: Yu-Chih Huang
<b>14:30 - 14:45</b> E0-011	SCALING RELATIONSHIP OF THE PULSE-LIKE VELOCITY GROUND MOTIONS OF THE DISASTROUS EARTHQUAKES  Speaker: Ming-Hsuan Yen
<b>14:45 - 15:00</b> E1-011	NEAR-FIELD VELOCITY PULSE-LIKE GROUND MOTIONS ON FEBRUARY 6, 2018 MW6.4 HUALIEN, TAIWAN EARTHQUAKE AND STRUCTURE DAMAGE IMPLICATIONS  Speaker: Kun Ji

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**Wednesday, September 18th, 13:30 - 15:00**

**Room 203**

**Session Title:** H0 - Seismic loss and risk assessment  
H2 - Seismic hazards and vulnerabilities  
H3 - Earthquake loss estimation

**Chair:** Lessandro Estelito Garciano, Cheng-Tao Yang

<b>13:30 - 13:50</b> H0-001 (Invited Talk)	RED-ACT: REAL-TIME EARTHQUAKE DAMAGE ASSESSMENT USING CITY-SCALE NONLINEAR TIME HISTORY ANALYSIS Speaker: Qing-Le Cheng
<b>13:50 - 14:05</b> H2-017	TIME DEPENDENT PROBABILISTIC SEISMIC HAZARD ASSESSMENT FOR HIMALAYAN REGION Speaker: Shweta Bajaj
<b>14:05 - 14:20</b> H0-013	DEVELOPMENT OF SEISMIC IMPACT ASSESSMENT OF TAIWAN'S ROAD NETWORK Speaker: Cheng-Tao Yang
<b>14:20 - 14:35</b> H0-017	STUDY ON THE SEISMIC FRAGILITY OF ECCENTRIC NON-STRUCTURES IN HOSPITALS Speaker: Liang-Sheng Su
<b>14:35 - 14:50</b> H3-011	QUANTIFYING THE SEISMIC RESILIENCE OF COMMUNITIES: A DISTRIBUTED COMPUTING FRAMEWORK Speaker: Omar Sediek
<b>14:50 - 15:05</b> H0-020	QUANTIFYING A RESILIENCE INDEX OF A WATER DISTRIBUTION NETWORK (WDN) UNDER SEISMIC HAZARD Speaker: Lessandro Estelito Garciano

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