

Tuesday  
 Sep. 17  
 AM1

**Tuesday, September 17th, 10:50 - 12:20** **Conference Hall**

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

**Chair:** John Wallace, Fu-Pei Hsiao

<b>10:50 - 11:10</b> SE2-001 (Invited Talk)	AXIAL COLLAPSE MODELS FOR RC STRUCTURAL WALLS AND WALL PIERS  Speaker: John Wallace
<b>11:10 - 11:25</b> SE2-021	SEISMIC ASSESSMENT METHODOLOGY FOR CORRODED REINFORCED CONCRETE BUILDINGS  Speaker: Sunil Nataraj
<b>11:25 - 11:40</b> SE2-022	SEISMIC EVALUATION AND FRAGILITY CURVES OF A TYPICAL SCHOOL BUILDING IN TAIWAN  Speaker: Te-Kuang Chow
<b>11:40 - 11:55</b> SE2-026	STUDY ON SEISMIC RETROFITTING FOR EXISTING BUILDINGS WITH EXTERIOR REINFORCED CONCRETE FRAMES  Speaker: Fu-Pei Hsiao
<b>11:55 - 12:10</b> SE2-014	AUTOMATIC HINGE GENERATION SYSTEM FOR NONLINEAR ANALYSIS WITH HINGES CONSIDERING P-M INTERACTION  Speaker: Chi-Hang Li
<b>12:10 - 12:25</b> SE2-016	DATA SYSTEM AND DATA ANALYSIS OF SCHOOL BUILDING RETROFITTING IN TAIWAN  Speaker: Yuan-Sen Yang

**Tuesday, September 17th, 10:50 - 12:20** **Room 101**

**Session Title:** SE4 - Seismic design, evaluation and retrofit of bridge structure

**Chair:** Kunitomo Sugiura, Patria Kusumaningrum

<b>10:50 - 11:10</b> SE4-003 (Invited Talk)	ANTI-CATASTROPHE PERFORMANCE IMPROVEMENT OF MULTI-PIPE INTEGRATED BRIDGE PIER WITH HIGH PERFORMANCE SHEAR PANEL DAMPERS  Speaker: Kunitomo Sugiura
<b>11:10 - 11:30</b> SE4-002 (Invited Talk)	PARAMETRIC STUDIES OF STEEL FIBER REACTIVE POWDER CONCRETE BRIDGE PIER SUBJECTED TO LATERAL MONOTONIC LOADING  Speaker: Patria Kusumaningrum
<b>11:30 - 11:45</b> SE4-016	MITIGATION OF RESIDUAL DISPLACEMENTS OF RC BRIDGE COLUMNS BY PARTIALLY UNBONDED HIGH-STRENGTH STEEL STRANDS  Speaker: Yu-Chen Ou
<b>11:45 - 12:00</b> SE4-013	COMPARISON BETWEEN THE SEISMIC PERFORMANCE OF FULLY JOINTLESS SEMI-INTEGRAL AND JOINTED BRIDGES  Speaker: Yong-Chun Ma
<b>12:00 - 12:15</b> SE4-011	STUDY ON GFRP AND STEEL HYBRID TEMPORARY RESCUE BRIDGE FOR EMERGENCY DISASTER RELIEF  Speaker: Fang-Yao Yeh

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**Tuesday, September 17th, 10:50 - 12:20** **Room 103**

**Session Title:** SE11 - Recent developments in high-performance structural systems and devices for earthquake resilient infrastructure

**Chair:** Yi-Lung Mo, Huanjun Jiang

<b>10:50 - 11:10</b> SE11-001 (Invited Talk)	SEISMIC PERFORMANCE OF PERIODIC METAMATERIAL BARRIERS Speaker: Yi-Lung Mo
<b>11:10 - 11:25</b> SE11-021	EXPERIMENTAL INVESTIGATION OF THE HYSTERETIC PERFORMANCE OF SELF-CENTERING BUCKLING-RESTRAINED BRACES WITH FRICTION FUSES Speaker: Qin Xie
<b>11:25 - 11:40</b> SE11-022	CYCLIC BEHAVIOR OF SLENDER RC STRUCTURAL WALLS WITH HIGH STRENGTH STEEL REINFORCEMENT Speaker: Yu-Chen Chou
<b>11:40 - 11:55</b> SE11-024	STRUCTURAL PERFORMANCE OF REINFORCED CONCRETE MEMBERS WITH NON-STRUCTURAL WALLS WITHOUT ANCHORAGE OF WALL REINFORCEMENT Speaker: Yo Hibino

**Tuesday, September 17th, 10:50 - 12:20** **Room 201**

**Session Title:** A4 - Earthquake triggered geohazards  
 B2 - Subduction zone earthquakes, structure & geodynamics  
 B5 - Lesson learnt from recent large earthquakes

**Chair:** Tai-Lin Tseng, Chun-Te Chen

<b>10:50 - 11:10</b> B5-001 (Invited Talk)	SEISMIC HAZARD MODELLING IN NEW ZEALAND: LESSONS FROM RECENT EARTHQUAKES Speaker: Mark Stirling
<b>11:10 - 11:30</b> B5-002 (Invited Talk)	APPLICATION AND UPTAKE OF TIME-DEPENDENT HAZARD ASSESSMENT IN NEW ZEALAND Speaker: Matthew Gerstenberger
<b>11:30 - 11:50</b> B2-001 (Invited Talk)	ACCELERATING FORESHOCKS OF CRUSTAL EARTHQUAKES CONTROLLED BY FRICTIONAL HETEROGENEITIES Speaker: Yoshihiro Kaneko
<b>11:50 - 12:10</b> A4-002 (Invited Talk)	EFFECT OF SEISMIC RECORD IN NEWMARK ANALYSIS FOR EARTHQUAKE-INDUCED LARGE-SCALE LANDSLIDE Speaker: Che-Ming Yang
<b>12:10 - 12:25</b> B5-011	LESSONS LEARNED FROM RECENT EARTHQUAKES: 2016 MEINONG, TAIWAN, 2017 PUEBLA, MEXICO, AND 2017 POHANG, SOUTH KOREA Speaker: Insung Kim

**Tuesday, September 17th, 10:50 - 12:20**

**Room 202**

**Session Title:** A3 - Fault properties and rock mechanics

**Chair:** Li-Wei Kuo, En-Chao Yeh

<b>10:50 - 11:10</b> A3-002 (Invited Talk)	A PRELIMINARY RESULT OF TEMPERATURE DEPTH PROFILE IN A DRILLING BOREHOLE PENETRATED THE FUTAGAWA FAULT RUPTURED DURING THE 2016 KUMAMOTO $M_w$ 7.1 EARTHQUAKE  Speaker: Weiren Lin
<b>11:10 - 11:25</b> A3-011	STRESS STATE HETETOGENEITY OBSERVED ALONG THE TCDP EWLLS AND ITS RELATION TO LITHOLOGICAL VARIATIONS  Speaker: Mayukh Talukdar
<b>11:25 - 11:45</b> A3-003 (Invited Talk)	CO-SEISMIC FOCAL MECHANISM OF CHICHI EARTHQUAKE (1999, $M_w$ 7.6) DEDUCED FROM GOUGE MAGNETIC FABRIC  Speaker: Yu-Min Chou
<b>11:45 - 12:00</b> A3-012	DEFORMATION STYLES WITHIN SHALLOW CREEPING FAULT ZONE OF THE CHIHSHANG FAULT, TAIWAN  Speaker: Wen-Jie Wu
<b>12:00 - 12:20</b> A3-001 (Invited Talk)	RELATING POTENTIAL SIGNATURES OF FAULT HEALING AND DISTRIBUTED DEFORMATION IN FAULT DAMAGE ZONES  Speaker: Hiroki Sone
<b>12:20 - 12:35</b> A3-013	CURVED SLICKENLINES PRESERVE DIRECTION OF RUPTURE PROPAGATION  Speaker: Yoshihiro Kaneko

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**Tuesday, September 17th, 10:50 - 12:20**

**Room 203**

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

**Chair:** Bing-Ru Wu, Chin-Hsun Yeh

<b>10:50 - 11:05</b> H0-014	EVALUATION OF SEISMIC RESISTANT CAPACITY OF EXPOSURES BY MESH-BASED SCENARIO SIMULATION FOR DISASTER REDUCTION PLANNING  Speaker: Bing-Ru Wu
<b>11:05 - 11:20</b> H0-011	TIME-DEPENDENT COMPUTATION OF MULTISCALE INTERDEPENDENCIES BETWEEN LIFELINE SYSTEMS SUBJECTED TO SEISMIC EVENTS  Speaker: Szu-Yun Lin
<b>11:20 - 11:35</b> H0-012	AN METHOD FOR SEISMIC IMPACT EVALUATION OF LIFELINES FACILITIES CONSIDERS CASCADING EFFECTS  Speaker: Chih-Hao Hsu
<b>11:35 - 11:50</b> H3-012	DEVELOPMENT AND APPLICATIONS OF SEISMIC DISASTER SIMULATION TECHNOLOGY  Speaker: Chin-Hsun Yeh
<b>11:50 - 12:05</b> H0-015	SEISMIC PERFORMANCE OF WATER SUPPLY SYSTEMS — FROM EARTHQUAKE EXPERIENCES TO RECENT RISK ASSESSMENT WORK IN TAIWAN  Speaker: Gee-Yu Liu
<b>12:05 - 12:20</b> H0-018	DAMAGING DATA SPECTRUM FRAGILITY CURVES DEVELOPMENT AND SCENARIO BASED LOSS ESTIMATION  Speaker: Ming-Kai Hsu

**Tuesday, September 17th, 10:50 - 12:20**

**Room 204**

**Session Title:** 5ICUDR

<b>10:50 - 12:20</b>	<b>5<sup>th</sup> INTERNATIONAL CONFERENCE ON URBAN DISASTER REDUCTION</b> - DECADES REVIEW ON RECOVERY: LEARNING FROM BEST PRACTICES
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