

Monday, September 16th, 10:50 - 12:20 **Conference Hall**

Session Title: SS1 - 1999 Mw7.6 Chi-Chi Earthquake: 20 years of scientific study Earthquake

Chair: Ya-Ju Hsu, Wen-Tzong Liang

10:50 - 11:10 SS1-007 (Invited Talk)	THE 1960 CHILE EARTHQUAKE -- IMPLICATION FOR SLIP PARTITIONING AT A CONVERGENT BOUNDARY Speaker: Hiroo Kanamori
11:10 - 11:30 SS1-001 (Invited Talk)	WHAT HAVE WE LEARNED FROM THE 1999 Ms7.6 CHI-CHI, TAIWAN, EARTHQUAKE FOR RESOLVING THE BASIC PROBLEMS IN EARTHQUAKE PHYSICS? Speaker: Jeen-Hwa Wang
11:30 - 11:50 SS1-012 (Invited Talk)	PROBING FAULT FRICTION AND CRUSTAL RHEOLOGY FROM CO-SEISMIC AND POSTSEISMIC OBSERVATIONS Speaker: Jean-Philippe Avouac
11:50 - 12:10 SS1-002 (Invited Talk)	WHAT WE LEARN FROM THE TAIWAN CHELUNGU FAULT DRILLING PROJECT Speaker: Li-Wei Kuo
12:10 - 12:25 SS1-013	STATUS OF THE ISC BULLETIN AND ASSOCIATED DATASETS IN THE AREA OF 1999 CHI-CHI EARTHQUAKE Speaker: Dmitry Storchak

Monday, September 16th, 10:50 - 12:20 **Room 101**

Session Title: A4 - Earthquake triggered geohazards
 B4 - Remote sensing and crustal deformation

Chair: Yu-Ting Kuo, James Hollingsworth

10:50 - 11:10 B4-002 (Invited Talk)	OPTICAL IMAGE CORRELATION AND THE CHARACTERIZATION OF NEAR-FIELD GROUND DEFORMATION IN SURFACE RUPTURING EARTHQUAKES Speaker: James Hollingsworth
11:10 - 11:25 B4-011	THE 2018 MW6.4 HUALIEN EARTHQUAKE IN EASTERN TAIWAN: INSIGHTS FROM SYNTHETIC APERTURE RADAR INTERFEROMETRY (INSAR) AND RELOCATED SEISMICITY Speaker: Sin-Mei Ng
11:25 - 11:40 B4-013	DIGITALLY IMAGING SURFACE DEFORMATION: CASE STUDIES OF 1999 CHI-CHI, 2008 WENCHUAN AND 2018 HUALIEN EARTHQUAKES Speaker: Yu-Ting Kuo
11:40 - 11:55 A4-012	ANALYSIS OF PALSAR-2 IMAGES TO EXTRACT GEOLOGICAL EFFECTS CAUSED BY THE 2018 HOKKAIDO-EASTERN-IBURI EARTHQUAKE Speaker: Yoshihisa Maruyama

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Room 103

Session Title: B0 - Active tectonics and observations
B1 - Mountain Building Processes
B2 - Subduction zone earthquakes, structure & geodynamics

Chair: Donald M Fisher, Chih-Tung Chen

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10:50 - 11:10 B1-001 (Invited Talk)	MOUNTAIN BUILDING AND DEFORMATION PARTITIONING Speaker: Jacques Malavieille
11:10 - 11:30 B1-002 (Invited Talk)	MOUNTAIN BELT DYNAMICS, ROCK STRENGTH AND TOPOGRAPHY IN TAIWAN Speaker: Donald M Fisher
11:30 - 11:45 B2-011	SUBDUCTION OF TRANSITIONAL CRUST IN MANILA TRENCH CAUSING DEEP PLATE-BENDING NORMAL FAULT EARTHQUAKES Speaker: Eh Tan
11:45 - 12:00 B0-011	DEFORMATION CHARACTERISTICS IN THE TAIWAN ACTIVE COLLISION ZONE AND THEIR GEODYNAMIC MECHANISMS: INSIGHT FROM FEM Speaker: Shoubiao Zhu
12:00 - 12:15 B1-012	THE TULUNGWAN-CHAOCHOU FAULT COMPLEX: AN ACTIVE, CRUSTAL-SCALE FAULT IN AN ACR-CONTINENT COLLISION Speaker: Timothy Byrne
12:15 - 12:30 B1-011	EARTHQUAKE GEOLOGY OF THE ACTIVE SHANCHIAO FAULT, TAIPEI METROPOLIS, AND IMPLICATIONS ON POST-OROGENIC PROCESSES IN NORTHERNMOST TAIWAN Speaker: Chih-Tung Chen

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Room 201

Session Title: SE5 - Revisiting probability seismic hazard assessment within 20 years after chichi earthquake (Joint session with Taiwan earthquake model, TEM)

Chair: Hiroyuki Fujiwara, Bor-Shouh Huang

10:50 - 11:10 SE5-001 (Invited Talk)	DEVELOPMENT OF THE TAIWAN SEISMOGENIC SOURCE MODEL FOR SEISMIC HAZARD USING SSHAC LEVEL 3 METHODOLOGY Speaker: Bor-Shouh Huang
11:10 - 11:30 SE5-006 (Invited Talk)	THE SEISMOLOGENIC STRUCTURE SOURCE MODEL OF TEM: ACHIEVEMENTS AND FUTURE CHALLENGES Speaker: J. Bruce H. Shyu
11:30 - 11:45 SE5-016	TAIWAN OFFSHORE SEISMOGENIC FAULTS Speaker: Kuan Yu Chen
11:45 - 12:05 SE5-002 (Invited Talk)	METHODOLOGY OF DEVELOPING A GROUND MOTION LOGIC TREE FOR SITE-SPECIFIC PROBABILISTIC SEISMIC HAZARD ANALYSIS IN TAIWAN Speaker: Kuo-Liang Wen
12:05 - 12:25 SE5-003 (Invited Talk)	AN INTEGRATED SYSTEM FOR SHARING INFORMATION ON NATIONAL SEISMIC HAZARD MAPS FOR JAPAN AND ITS APPLICATION TO SEISMIC RISK ASSESSMENT Speaker: Hiroyuki Fujiwara

Monday, September 16th, 10:50 - 12:20

Room 202

Session Title: SE6 - Advanced Simulation, Artificial Intelligence, Data Science and Internet of Things for Earthquake Engineering

Chair: Khalid Mosalam, Chuin-Shan Chen

10:50 - 11:10 SE6-001 (Invited Talk)	STRUCTURAL HEALTH MONITORING USING MACHINE LEARNING Speaker: Khalid Mosalam
11:10 - 11:25 SE6-011	USE OF MACHINE LEARNING TECHNIQUES TO DETECT THE LOCATIONS OF EARTHQUAKE-INDUCED SLOPE FAILURES Speaker: Yoshihisa Maruyama
11:25 - 11:40 SE6-018	A REAL TIME SEISMIC CAPABILITY EVALUATION OF SCHOOL BUILDINGS USING MACHINE LEARNING Speaker: Nai-Wen Chi
11:40 - 11:55 SE6-015	ONLINE MODEL UPDATING FOR THE ADVANCED HYBRID SIMULATIONS OF A STEEL PANEL DAMPER SUBSTRUCTURE Speaker: Ming-Chieh Chuang
11:55 - 12:10 SE6-016	METHODOLOGY FOR EARTHQUAKE-FIRE COUPLED HYBRID SIMULATION Speaker: Zhimeng Yu

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Room 203

Session Title: SE3 - Seismic performance of steel and composite columns
SE7 - Development of steel structures for seismic urban regions

Chair: Chia-Ming Uang, Chung-Che Chou

10:50 - 11:10 SE3-001 (Invited Talk)	COMPACTNESS REQUIREMENT FOR SEISMIC DESIGN OF WIDE-FLANGE DEEP COLUMNS Speaker: Chia-Ming Uang
11:10 - 11:30 SE3-012 (Invited Talk)	SEISMIC BEHAVIOR OF HSS COLUMNS UNDER LATERAL LOADING Speaker: Jason McCormick
11:30 - 11:50 SE7-001 (Invited Talk)	JSCE SPECIFICATIONS ON EVALUATION OF DUCTILE CRACK INITIATION DUE TO ELCF IN STEEL BRIDGE STRUCTURES Speaker: Hanbin Ge
11:50 - 12:05 SE3-014	A SEVEN-STORY STEEL BRACED FRAME UNDER FAR-FIELD AND NEAR-FAULT EARTHQUAKES: LOADING PROTOCOL AND SEISMIC TEST OF HIGH-STRENGTH STEEL H-SHAPED COLUMNS Speaker: Te-Hung Lin
12:05 - 12:20 SE3-019	US-TAIWAN COLLABORATIVE RESEARCH ON STEEL COLUMNS: CYCLIC TESTING OF TWO-STORY SUBASSEMBLAGES Speaker: Chung-Che Chou

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Room 204

Session Title: 5ICUDR

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