

Monday, September 16th, 16:10 - 17:40

Conference Hall

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

A4 - Earthquake triggered geohazards

B6 - The nature of aseismic slip: observations and simulations

B7 - General seismology

Chair: Wei-An Chao, Kate Chen

16:10 - 16:30 A4-001 (Invited Talk)	THE FORMATION AND FAILURE OF LANDSLIDE DAM IN CHICHI EARTHQUAKE 1999 AND TYPHOON MORAKOT 2009 Speaker: Su-Chin Chen
16:30 - 16:45 A4-011	CAN WE UNDERSTAND LANDSLIDE FROM COSEISMIC LANDSLIDE SEISMIC SIGNALS? Speaker: Wei-An Chao
16:45 - 17:00 SS1-011	LOWER-CRUSTAL RHEOLOGY IN THE TAIWAN OROGEN REVEALED BY THE POSTSEISMIC TRANSIENTS FOLLOWING THE 1999 CHI-CHI EARTHQUAKE Speaker: Chi-Hsien Tang
17:00 - 17:15 B7-012	TEMPORAL VELOCITY CHANGES IN THE CRUST OVER 2005–2015 NEAR THE SUMATRA EXAMINED USING REPEATING AFTERSHOCKS SUBDUCTION ZONE Speaker: Wen-Che Yu
17:15 - 17:30 B7-014	EVALUATING THE ASSOCIATION BETWEEN TECTONIC TREMORS AND EARTHQUAKES IN TAIWAN FROM SEVEN YEARS CATALOGS Speaker: Wei Peng
17:30 - 17:45 B7-013	SCATTERING AND INTRINSIC ATTENUATION OF S-WAVES IN SOUTHERN AEGEAN DERIVED USING MULTIPLE LAPSE TIME WINDOW ANALYSIS Speaker: P. Ranjan
17:45 - 18:00 B6-013	SINGLE-STATION CLASSIFICATION OF TECTONIC TREMOR USING FISHER'S CLASS SEPARABILITY CRITERION-BASED FEATURE SELECTION Speaker: Ting-Chen Yeh

**Monday
Sep. 16
PM2**

Monday, September 16th, 16:10 - 17:40 **Room 101**

Session Title: SS1 - 1999 Mw7.6 Chi-Chi Earthquake: 20 years of scientific study
Earthquake
C3 - Earthquake precursors and forecasting

Chair: Shih-Jung Wang, Ching-Chou Fu

16:10 - 16:30 SS1-004 (Invited Talk)	SEISMO-IONOSPHERIC PRECURSORS OF THE TOTAL ELECTRON CONTENT (TEC) ASSOCIATED WITH THE 21 SEPTEMBER 1999 CHI-CHI EARTHQUAKE Speaker: Jann-Yenq Liu
16:30 - 16:50 C3-001 (Invited Talk)	EVALUATION OF SEISMO-MAGNETIC PRECURSORY PHENOMENA IN KANTO, JAPAN BY USING STATISTICAL ANALYSIS Speaker: Katsumi Hattori
16:50 - 17:05 C3-013	INVESTIGATING PERMEABILITY ENHANCEMENT BY USING GROUNDWATER LEVEL ANOMALIES IN 2016 KAOHSIUNG MEINONG EARTHQUAKE, TAIWAN Speaker: Shih-Jung Wang
17:05 - 17:20 C3-014	THE IMPORTANCE OF STATIONARY PRE-EARTHQUAKE ANOMALIES OBSERVED FROM TOTAL ELECTRON CONTENT BASED ON GLOBAL IONOSPHERE MAPS Speaker: Hau-Kun Jhuang
17:20 - 17:35 C3-011	GROUND Rn CONCENTRATION AND LOCAL SEISMICITY AROUND ASahi STATION, BOSO, JAPAN Speaker: Haruna Kojima
17:35 - 17:50 C3-012	GAS GEOCHEMISTRY APPLIED TO EARTHQUAKE PRECURSOR IN TAIWAN: RECENT STATUS AND FUTURE SCENARIOS Speaker: Ching-Chou Fu

**Monday
Sep. 16
PM2**

Monday, September 16th, 16:10 - 17:40

Room 103

Session Title: C3 - Earthquake precursors and forecasting
C4 - Ground motion observations and characteristics from small to large events

Chair: Chu-Hsiang Kuo, En-Jui Lee

16:10 - 16:30 C4-001 (Invited Talk)	NIED OBSERVATION NETWORK FOR EARTHQUAKE, TSUNAMI AND VOLCANO: MOWLAS Speaker: Shin Aoi
16:30 - 16:50 C4-002 (Invited Talk)	DEVELOPMENT OF THE LOW COST EARTHQUAKE EARLY WARNING AND SHAKEMAP SYSTEMS IN TAIWAN Speaker: Yih-Min Wu
16:50 - 17:05 C4-012	STRONG MOTION OBSERVATIONS AND CHARACTERISTICS IN MEINONG AND HUALIEN, TAIWAN EARTHQUAKES Speaker: Chun-Hsiang Kuo
17:05 - 17:20 C4-011	GROUND MOTION CHARACTERISTICS IN HUALIEN, TAIWAN BASED ON MICROTREMOR OBSERVATIONS Speaker: Junji Kiyono
17:20 - 17:35 C4-013	A GRAPHICS PROCESSING UNIT (GPU) BASED MICROSEISMIC MONITORING PLATFORM Speaker: En-Jui Lee
17:35 - 17:50 C3-016	RADON MONITORING IN TATUN VOLCANIC GROUP, MAI-TAO-SAN AREAS AND WAN-DAN AREAS OF TAIWAN FOR SEISMIC AND VOLCANIC STUDY Speaker: Arvind Kumar

**Monday
Sep. 16
PM2**

Monday, September 16th, 16:10 - 17:40 **Room 201**

Session Title: SE9 - Liquefaction potential map and application
F4 - Seismic design of foundations and geotechnical structures
F5 - Geotechnical engineering innovations

Chair: Tzou-Shin Ueng, Jin-Hung Hwang

16:10 - 16:30 SE9-001 (Invited Talk)	CURRENT STATUS OF, AND PROBLEMS WITH, HAZARD MAPS FOR SOIL LIQUEFACTION Speaker: Susumu Yasuda
16:30 - 16:50 F4-013 (Invited Talk)	EFFECT OF GROUND IMPROVEMENT THROUGH DYNAMIC COMPACTION ON LIQUEFACTION OF RECLAIMED LAND Speaker: Charng-Hsein Juang
16:50 - 17:05 F5-012	A FEW EXAMPLES OF LIQUEFACTION ASSESSMENT OF GROUND DURING EARTHQUAKE USING PIEZO DRIVE CONE IN TAIWAN Speaker: Shun-Ichi Sawada
17:05 - 17:20 SE9-013	A NEW SIMPLIFIED METHOD FOR ASSESSING LIQUEFACTION POTENTIAL OF SOILS: TWENTY YEARS DEVELOPMENT OF HBF METHOD Speaker: Jin-Hung Hwang
17:20 - 17:35 SE9-011	VS BASED APPROACH TO REFINE LIQUEFACTION HAZARD MAP Speaker: Chi-Chin Tsai
17:35 - 17:50 SE9-012	FACTORS CONSIDERED IN PRODUCING A REFINED SOIL LIQUEFACTION POTENTIAL MAP: A CASE STUDY OF TAIPEI BASIN Speaker: Chih-Chieh Lu

**Monday
Sep. 16
PM2**

Monday, September 16th, 16:10 - 17:40 **Room 202**

Session Title: SE12 - Seismic performance design, evaluation and retrofit for non-structural components
 E2 - Lifelines and infrastructure

Chair: Hyoung-Suk Choi, Fan-Ru Lin

16:10 - 16:25 SE12-017	FAILURE ESTIMATION OF PRESSURIZED STEEL PIPE FITTINGS UNDER IN-PLANE CYCLIC LOADING: ELBOW AND TEE CASES Speaker: Jae-Bong Kim
16:25 - 16:40 SE12-014	EXPERIMENTAL STUDY ON THE MECHANICAL PROPERTIES OF PIPES JOINTS UNDER AXIAL LOAD Speaker: Li Wenliang
16:40 - 16:55 SE12-026	NUMERICAL ANALYSIS OF FIRE SPRINKLER PIPING ACCORDING TO THE RESTRAINT METHOD OF BRANCH LINES Speaker: Hyoung-Suk Choi
16:55 - 17:10 SE12-030	SEISMIC EVALUATION AND STRENGTHENING METHOD FOR FIRE PROTECTION SPRINKLER-PIPING SYSTEM IN BUILDING Speaker: Yung An Tsai
17:10 - 17:25 E2-011	STEEL PIPELINE NONLINEARITY EFFECT ON THE FORCE-DISPLACEMENT ANALYSIS OF BURIED PIPELINES CROSSING STRIKE-SLIP FAULT Speaker: Farzad Talebi

**Monday
 Sep. 16
 PM2**

Monday, September 16th, 16:10 - 17:40 **Room 203**

Session Title: G0 - Seismic design, evaluation and retrofit

Chair: Rildolva, Yuan-Tao Weng

16:10 - 16:30 G0-001 (Invited Talk)	M6.4, M7.0, M6.9 LOMBOK ISLAND EARTHQUAKES, NUSA TENGGARA BARAT, INDONESIA ON JULY 29 – AUGUST 19, 2018 Speaker: Rildolva
16:30 - 16:45 G0-011	A MINIMALLY DISRUPTIVE RETROFITTING STRATEGY FOR EARTHQUAKE DAMAGED REINFORCED CONCRETE SHEAR WALLS Speaker: Joshua Woods
16:45 - 17:00 G0-012	SEISMIC RETROFIT OF A HISTORIC BUILDING IN SAN FRANCISCO USING ROTATIONAL FRICTION DAMPERS Speaker: Insung Kim
17:00 - 17:15 G0-013	A STUDY ON THE DAMPING EFFECT OF A WATER BORNE DEBRIS TO THE REINFORCED CONCRETE BUILDINGS Speaker: Toshikazu Kabeyasawa
17:15 - 17:30 G0-018	EFFECTIVE WIDTH OF SLAB AT A SPAN END IN REINFORCED CONCRETE FRAMES Speaker: Ziling Xiao

Monday, September 16th, 16:10 - 17:40

Room 204

Session Title: 5ICUDR

16:10 - 17:40

**5th INTERNATIONAL CONFERENCE ON URBAN DISASTER
REDUCTION - DECADES REVIEW ON RECOVERY: LEARNING
FROM BEST PRACTICES**

**Monday
Sep. 16
PM2**