

# 8th International Conference on Urban Earthquake Engineering

March 7<sup>th</sup>-8<sup>th</sup>, 2011  
Tokyo Japan

**Venue :** Tokyo Institute of Technology, Ookayama Campus, Tokyo, Japan

Greetings !

I am delighted to convene our 8th International Conference on Urban Earthquake Engineering here in Tokyo on March 7th and 8th, 2011, once again welcoming numerous distinguished experts and guests from around the world. The conference has been held annually in Tokyo since fiscal year 2003 under the auspices of two major consecutive Center of Excellence (COE) programs, both headquartered at the Center for Urban Earthquake Engineering (CUEE) here at Tokyo Tech. These are the 21st Century COE program entitled "Evolution of Urban Earthquake Engineering" (FY 2003-2007) and the subsequent Global COE program entitled "International Urban Earthquake Engineering Center for Mitigating Seismic Mega Risk" launched in fiscal year 2008.

The Eighth Conference offers a platform not only to share common interests and new information and technologies in the field of Urban Earthquake Engineering but also to share our collective research and educational outcomes, while expediting and strengthening the worldwide network for Earthquake Engineering. The Conference is to feature state-of-the-art technical presentations as well as an agenda of some 250 oral presentations on various themes relevant to Urban Earthquake Engineering, with participation comprising scientists, engineers, researchers, and active planners of divers generations, including both younger researchers as well as graduate students. This conference also includes Special Sessions and Best Presentation Awards for Young Researchers. To facilitate conference participation of young researchers, postdoctoral fellows and PhD students, travel grants have been awarded this year again to some forty individuals studying or working at collaborating institutions.

This conference will be capped by two Special Lectures in honor of the retirement from Tokyo Tech of Professors Akira Wada and Tatsuo Ohmachi, both of whom have dedicated themselves and their professional activities to the progress of our discipline, not to mention the promotion of a robust faculty in the field of Earthquake Engineering at TiTech. We would like to express both our profound respect and heartfelt appreciation for their accomplishments and efforts. In closing, we hope that the Eighth Conference will prove a rich and stimulating opportunity for all participants, who inclusive of divers generations are dedicated to Urban Earthquake Engineering.

Kohji Tokimatsu  
*Global COE Program Leader and Director of CUEE, Tokyo Tech*

## **Organized by**

Global COE Program "International Urban Earthquake Engineering Center  
for Mitigating Seismic Mega Risk"

Center for Urban Earthquake Engineering (CUEE), Tokyo Institute of Technology

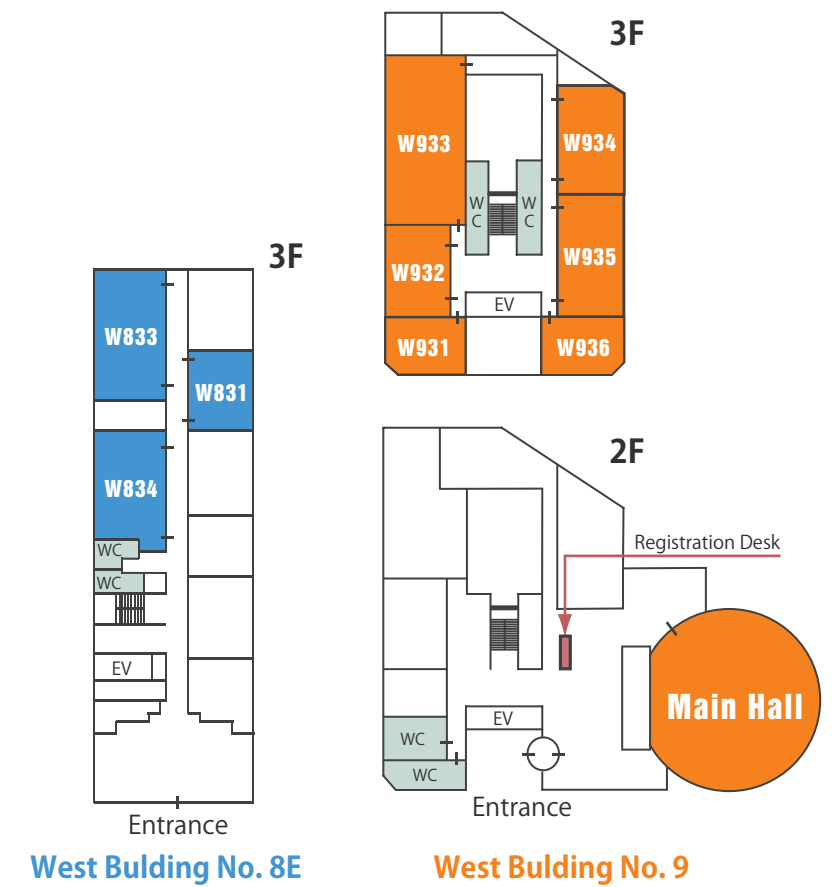
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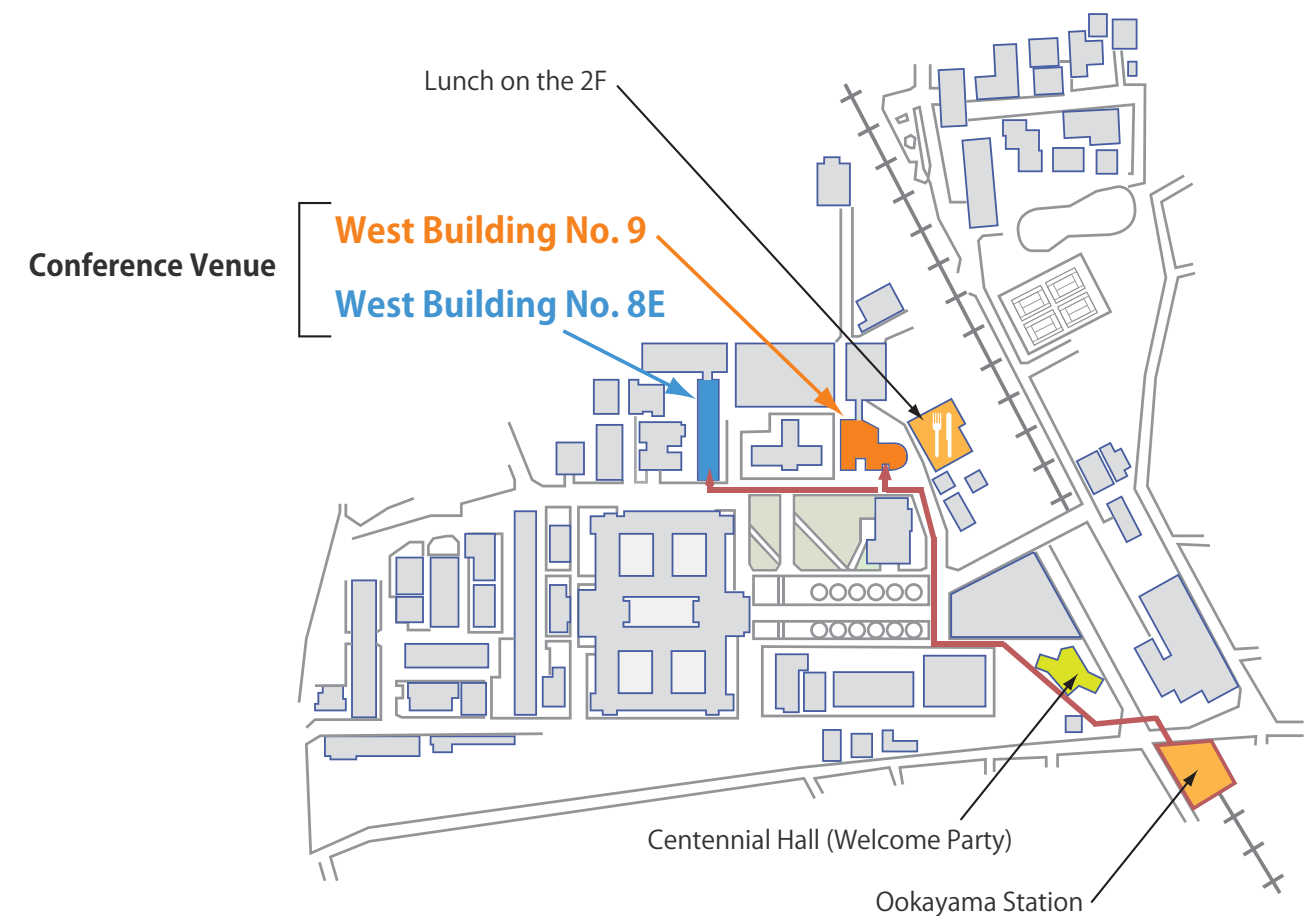


# SESSION SCHEDULE TABLE

March 7th									
Main Hall (No.9-2F)	W933 (No.9-3F)	W935 (No.9-3F)	W934 (No.9-3F)	W932 (No.9-3F)	W931 (No.9-3F)	W936 (No.9-3F)	W833 (No.8E-3F)	W834 (No.8E-3F)	W831 (No.8E-3F)
8 Registration									
9 Opening Session									
K1 Keynote 1 Stephen Mahin, Director and Professor, Pacific Earthquake Engineering Research Center									
K2 Keynote 2 Ross Boulanger, Professor, University of California, Davis									
Guidance Young Researchers Session									
	Y1-1 Young Researchers Session Steel Structure 1	Y1-2 Young Researchers Session Design & Standards	Y1-3 Young Researchers Session Geotech 1	Y1-4 Young Researchers Session Structural Concrete 1	Y1-5 Young Researchers Session Response Control 1	Y1-6 Young Researchers Session Timber & Tsunami	Y1-7 Young Researchers Session Seismology 1	Y1-8 Young Researchers Session Human Behavior & Risk Management	Y1-9 Young Researchers Session Bridge
13 Lunch									
S1-H Design & Standards 1	S1-1 Steel Structure 1	S1-2 Human Behavior	Y2-3 Young Researchers Session Geotech 2	Y2-4 Young Researchers Session Structural Concrete 2	Y2-5 Young Researchers Session Response Control 2		Y2-7 Young Researchers Session Seismology 2		
S2-H Seismology 1	S2-1 Steel Structure 2	S2-2 Tsunami		Y3-4 Young Researchers Session Structural Concrete 3					
K3 Keynote 3 Martin Wieland, Chairman, ICOLD Committee, Poyry Energy Ltd.									
SL Special Lecture Report on Earthquake at Christchurch, New Zealand									
19 Welcome Party Centennial Hall									



March 8th				
Main Hall (No.9-2F)	W933 (No.9-3F)	W935 (No.9-3F)	W934 (No.9-3F)	W932 (No.9-3F)
S3-H Seismology 2	S3-1 Geotech 1	S3-2 Structural Concrete (Civil)	S3-3 Response Control 1	Y4-4 Young Researchers Session Steel Structure 2
S4-H Seismology 3	S4-1 Geotech 2	S4-2 Bridge	S4-3 Response Control 2	
13 Lunch				
S5-H Risk Management 1	S5-1 Geotech 3	S5-2 Structural Concrete (Building 1)	S5-3 Monitoring	
S6-H Risk Management 2	S6-1 Geotech 4	S6-2 Structural Concrete (Building 2)	S6-3 Design & Standards 2	S6-4 Non-structural Components
K4 Keynote 4 Tatsuo Ohmachi, Professor, Tokyo Institute of Technology				
K5 Keynote 5 Akira Wada, Professor, Tokyo Institute of Technology				
Closing Session				
19 Banquet Shinagawa Prince Hotel				



## Opening Session (Chair : Toru Takeuchi) Main Hall 9:15 ~ 9:35

Welcome Message / **Kohji Tokimatsu** (Tokyo Institute of Technology)

**Stephen Mahin** (Pacific Earthquake Engineering Research Center)

## K1 Keynote Lecture 1 (Chair : Akira Wada) Main Hall 9:35 ~ 10:05

**Stephen Mahin**, Director and Professor, Pacific Earthquake Engineering Research Center  
Achieving Resiliency with Seismic Isolation

## K2 Keynote Lecture 2 (Chair : Kohji Tokimatsu) Main Hall 10:05 ~ 10:35

**Ross Boulanger**, Professor, University of California, Davis  
Challenges in Estimating the In-situ Strength of Liquefied Soil

## YG Young Researchers Session Guidance Main Hall 10:35 ~ 10:50

**Troy Morgan** (Tokyo Institute of Technology)

## Parallel Session 1 11:00 ~ 13:00

### Y1-1 Young Researchers Session : Steel Structure 1 (Chair : Charles Roeder & Satoshi Yamada) W933

Plastic Deformation Capacity of Structural Steel under Various Axial Strain Histories / **Yu Jiao** (Tokyo Institute of Technology)  
Elasto-plastic Behavior of RHS Columns under Bi-axial Bending Moments / **Yuko Shimada** (Chiba University)  
Investigation of Cyclic Deterioration Behavior of RHS-Columns / **Takanori Ishida** (Tokyo Institute of Technology)  
Proposal of Elastic Buckling Strength Formula for Columns in Steel Moment Frames Considering Anti-Symmetric Axial Forces Generated by Horizontal Loads / **Akinobu Takada** (Osaka University)  
Shear Resistance of Exposed Column Bases in Steel Braced Frames / **Hayato Asada** (Tokyo Institute of Technology)  
Strength Evaluation of Interface Weld of Gusset Plate Connections / **Yao Cui** (Tokyo Institute of Technology)  
Seismic Damping Controlled Shear Wall System and Its Design Methodology / **Chao Pan** (Tongji University)  
Development of a Self-centering Steel Plate Shear Wall / **Patricia Clayton** (University of Washington)  
Nonlinear Seismic Response of Steel Concentrically Braced Frames using Endurance Time Method / **Mohammad Ardebili** (K. N. Toosi University of Technology)

### Y1-2 Young Researchers Session : Design & Standards (Chair : Giuseppe Oliveto & Akira Wada) W935

Improvement of Parallel Computing Performance of Integrated Earthquake Simulation / **Maddegedara Wijerathne** (The University of Tokyo)  
An Improvement in Estimating the Seismic Responses of One-way Unsymmetric Plan Tall Buildings / **Mehdi Poursha** (Sahand University of Technology)  
Development of IT Triage System (Tracy) to Share Regional Disaster Medical Information / **Muneyoshi Numada** (The University of Tokyo)  
A Performance-based Framework for Design and Evaluation of Communities Subject to Hazards / **Michael Mieler** (University of California)  
Ceiling Fragility of Japanese Ceiling Systems / **Yasuaki Sato** (Tokyo Institute of Technology)

### Y1-3 Young Researchers Session : Geotechnical Earthquake Engineering 1

(Chair : Ross Boulanger & Kohji Tokimatsu) W934

Numerical Simulations of a Centrifuge Test to Study Void-redistribution and Shear-localization Effects / **Ronnie Kamai** (University of California)  
Centrifuge Modeling on Uplift Behavior of Immersed Tunnel Embedded in Liquefied Soils / **Yu-Chen Wei** (National Central University)  
Centrifuge Testing of Rocking Foundations on Saturated and Submerged Sand / **Jacquelyn Allmond** (University of California)  
Failure Mechanisms of Shallow Foundation under Combined Loadings / **Michael Cocjin** (Tokyo Institute of Technology)  
Inclusion of Axial Load on Bending Response of Pile in Liquefiable Soils / **Domenico Lombardi** (University of Bristol)  
Effects of Pile Rigidity on Response of Base-isolated Structure during Soil Liquefaction Based on Centrifuge Tests / **Takenori Hida** (Kyoto University)  
Simulation of Three-Dimensional Nonlinear Behavior of Soil-pile-structure in Large Shaking Table Tests / **Youhao Zhou** (Tokyo Institute of Technology)

Seismic Analysis of Coupled Soil-pile-structure Interaction using Finite Elements / **Mahmoud Hussien** (Kyoto University)  
The Effect of Loading Rate on Bearing Capacity of Pile Foundations / **Koji Watanabe** (Obayashi Corporation)

- Y1-4 Young Researchers Session : Structural Concrete 1 (Chair : Tan Kiang Hwee & Junichiro Niwa) W932**  
Shear Strengthening for Reinforced Concrete Beams using ECC Panels / **Koji Matsumoto** (Tokyo Institute of Technology)  
Applicability of Tension Softening Curves for the Contribution of Steel Fibers to Shear Resistance of RSF Beams / **Pitcha Jongvivatsakul** (Tokyo Institute of Technology)  
Experimental Study on Diagonal Compressive Capacity of Reinforced Concrete Beams using High Strength Materials / **Patarapol Tantipidok** (Tokyo Institute of Technology)  
Experimental Response of Steel Fiber Reinforced Concrete Knee Joints of Rigid-framed Railway Bridges Under Cyclic Loading / **Kabir Shakya** (Tokyo Institute of Technology)
- Y1-5 Young Researchers Session : Response Control 1 (Chair : Victor Zayas & Toru Takeuchi) W931**  
Response Behaviour of Isolated Buildings to Earthquake Excitations Considering Soil Flexibility / **Sayed Mahmoud** (Lund University)  
Nonlinear Seismic Response of Base-isolated Buildings Considering Pounding / **Deepak Pant** (Tokyo Institute of Technology)  
Pounding of Base Isolated Structures Considering Inelastic Behavior of Superstructure / **Parisara Thiravechyan** (Tokyo Institute of Technology)  
Modelling Hybrid Base Isolation Systems for Free Vibration Simulations / **Anastasia Athanasiou** (University of Catania)  
Seismic Isolation of Tall Cantilever Wall Buildings using One or More Isolation Planes / **Vladimir Calugaru** (University of California)  
Shaking Table Test Study of Sympathetic Vibration in Base Isolation Structure / **Yuxiang Xu** (Tongji University)
- Y1-6 Young Researchers Session : Timber & Tsunami (Chair : Mikhail Nosov & Hiroyasu Sakata) W936**  
Seismic Properties of Japanese Traditional Wooden Pagodas - Static Loading Test and Free Vibration Test of a Small Scale Model - / **Eisuke Nishikawa** (Tokyo Institute of Technology)  
Structural Collapse Analysis of Light-frame Wood Shear Walls under Earthquake Motions / **Weichi Pang** (Clemson University)  
Earthquake Response Analysis of Timber Structure with Passive Control Scheme by Detailed Frame Model / **Kazuhiro Matsuda** (Tokyo Institute of Technology)  
A Basic Study on Dynamic Property and Seismic Response of Timber Structure with Flexible Floor and Uni-axial Stiffness Eccentricity / **Yoshihiro Yamazaki** (Tokyo Institute of Technology)  
Numerical Model of Dynamics of Compressible Ocean in Tsunami Source: Sensitivity to Input Parameters / **Sergey Kolesov** (M.V.Lomonosov Moscow State University)  
Validation of Tsunami Inundation Modelling for the June 23, 2001 Peru Earthquake / **Bruno Adriano** (Japan Peru Center for Earthquake Engineering and Disaster Mitigation)  
The Tsunami Vulnerability Assessment in Peru using the Index of Potential Tsunami Exposure / **Hideaki Yanagisawa** (Tokyo Electric Power Services Co., Ltd.)
- Y1-7 Young Researchers Session : Engineering Seismology 1 (Chair : Yousef Bozorgnia & Saburoh Midorikawa) W833**  
Introduction of the Geological Database for TSMIP / **Chun-Hsiang Kuo** (National Center for Research on Earthquake Engineering)  
Effects of Water Layer on Seismogram Synthesis in Kanto Basin Area based on a Hybrid Boundary Element Method : Numerical Implementation / **Zheng-Hua Qian** (Tokyo Institute of Technology)  
A Preliminary Study on Variability of Earthquake Ground Motions due to Random Inhomogeneity in Propagation Path / **Yoshiyuki Sato** (Takenaka Corporation)  
Reevaluation of Deep Underground Structures in the Tokyo Metropolitan Area, Using Dominant Periods of H/V of Coda Waves Observed by MeSO-NET / **Seiji Tsuno** (Tokyo Institute of Technology)  
Seismic Response Estimation of Nuclear Power Plant Model Based on Fault-structure System / **Pher Quinary** (The University of Tokyo)  
Evaluation of Coseismic Displacements in the Near-field from Strong-motion Seismometers. Analysis of Four Recent Large Earthquakes / **Emmanuel Javelaud** (Tokyo Institute of Technology)  
Broadband Source Model for the 2009 L'Aquila, Italy, Earthquake / **Natalia Poiata** (University of Tokyo)  
The Possibility of Trap Wave and Site Effect in the Longitudinal Valley of Eastern Taiwan / **Kuei-Mei Lin** (National Central University)



Analysis of the Site Effect in Chianan Plain from the 2010 Jiasian, Taiwan, Earthquake / **Fei-Wen Cheng** (National Central University)

Estimation of Shallow S-wave Velocity Structure in Damascus City, Syria, Using Microtremor Exploration / **Hussam Zaineh** (Tokyo Institute of Technology)

#### **Y1-8 Young Researchers Session : Human Behavior & Risk Management**

**(Chair : Hideki Kaji & Toshihiro Osaragi) W834**

Seismic Risk and Damage Cost Analysis of Mid-rise Base Isolated Buildings in Peru / **Luis Bedrinana** (Center for Earthquake Engineering Research and Disaster Mitigation)

Residents Adaptation of Post Disaster Housing : The Role of Physical Environment for Social Interaction / **Syam Rachma** (Tokyo Institute of Technology)

Development of a Method for Detecting Vulnerable Area by Urban Texture / **Xue Ma** (Tokyo Institute of Technology)

An Integrated Earthquake Impact Assessment System / **Sheng-Lin Lin** (University of Illinois)

Local Site Effects on Damage of Historical Monuments in Istanbul during the 1894 Marmara Sea, Turkey, Earthquake / **Masashi Morita** (Tokyo Institute of Technology)

A study on Expected Distribution of Lead Time by Earthquake Early Warning in Japan / **Hidetoshi Yoshinari** (The University of Tokyo)

An Automated Decision-making System Framework for Earthquake Early Warning System Applications / **Stephen Wu** (California Institute of Technology)

#### **Y1-9 Young Researchers Session : Bridge (Chair : Ian Buckle & Chitoshi Miki) W831**

Shear Behavior of Segmental Concrete Beams with Draped External Tendons / **Hung Nguyen** (Tokyo Institute of Technology)

Seismic Performance of a Full-seize Polypropylene Fiber Reinforced Cement Composite Bridge Column Based on E-Defense Shake Table Excitations / **Richelle Zafra** (Tokyo Institute of Technology)

Advanced Precast Concrete Dual-shell Steel Columns / **Gabriele Guerrini** (University of California-San Diego)

Combined Actions on Reinforced Concrete Bridge Piers / **Thomas Frankie** (University of Illinois at Urbana-Champaign)

Bonding Behavior of CFRP Sheet-steel Connections Using for Seismic Retrofit of Highway Bridge Columns / **Guangfeng Zhang** (Public Works Research Institute)

Modeling of Pitting Corrosion in Reinforced Concrete Bridge Columns for Time-varying Seismic Risk Assessment / **Anirudh Rao** (Stanford University)

#### **Parallel Session 2 13:50 ~ 15:30**

#### **S1-H Design & Standards 1 (Chair : Constantine Spyrakos & Akira Wada) Main Hall**

Role of Standards and Regulations for Buildings / **Jun Kanda** (University of Tokyo)

Guidelines for Performance-Based Seismic Design of Tall Buildings / **Yousef Bozorgnia** (University of California)

Near Fault Earthquakes of Medium Magnitude: The Case of the Athens 1999 Event / **Constantine Spyrakos** (National Technical University of Athens)

Recent Revision of China Code for Seismic Design of Building Structures / **Yingmin Li** (Chongqing University)

Historical Review of the Italian Seismic Codes from the Perspective of the 2009 L'Aquila Earthquake / **Giuseppe Oliveto** (University of Catania)

Development and Implementation of Mega Urban Earthquake Damage Assessment and Reconstruction Program : 2010 Haiti Earthquake / **Hideki Miyamoto** (Miyamoto International Inc)

#### **S1-1 Steel Structure 1 (Chair : Xiaodong Ji & Toshiyuki Ogawa) W933**

Braced Frames for Seismic Design in Urban Areas / **Charles Roeder** (University of Washington)

Seismic Design of Recent Project in Tokyo Tech O-okayama Campus / **Toru Takeuchi** (Tokyo Institute of Technology)

Experimental and Analytical Validation of a Seismic Retrofit System for Existing Steel Moment-resisting Frames / **Dimitrios Lignos** (McGill University)

Factors Influencing the Progressive Collapse of Frame Structures and Sensitivity of the Collapse to These Factors / **Liping Liu** (Chongqing University)

Collapse Behavior and Ultimate Earthquake Resistance of Weak Column Type Multi Story Steel Frame under Bi-axial Ground Motion / **Satoshi Yamada** (Tokyo Institute of Technology)

Effect of Yielding of Roof Members on Seismic Response Behavior of Double Layer Lattice Domes / **Tomohiko Kumagai** (Tokyo Institute of Technology)

**S1-2 Human Behavior (Chair : Hari Srinivas & Toshihiro Osaragi) W935**

Human Dimensions of the Recovery of Environmental Assets: Implications for Disaster management / **Hari Srinivas** (United Nations Environment Programme)

Walking Experiment Considering Scattered Goods and Blackout in Walkways of High Rise Buildings after an Earthquake / **Akihiko Hokugo** (Kobe University)

Constructive Loop Model of Management for Pre-Quake Mitigation and Post-Quake Rehabilitation / **Haruyuki Fujii** (Tokyo Institute of Technology)

Human Behavior of Building Reconstruction and Fireproofing of Cities / **Toshihiro Osaragi** (Tokyo Institute of Technology)

Static and Dynamic Emergency Evacuation Guidance for Complex Building Geometries / **Chih-Yuan Chu** (National Central University)

**Y2-3 Young Researchers Session : Geotechnical Earthquake Engineering 2**

**(Chair : Ellen Rathje & Osamu Kusakabe) W934**

Effect of Arch Action on Pseudo-Static Response of Urban Mountain Tunnel at Relatively Shallow Depth in Soft Ground / **Shuhei Shibayama** (Tokyo Institute of Technology)

Displacement of Tunnels in Liquefied Sand Deposits / **Siau Chian** (University of Cambridge)

Stiffness and Poisson's Ratio Evaluation on Granular Materials by Elastic Wave Measurements on Laboratory Specimen / **Laxmi Suwal** (The University of Tokyo)

Dynamic Characteristics of the Surface Soils in Lima, Peru / **Diana Calderon** (Chiba University)

Simulations of Strong Ground Motions Recorded at Three Stations in Kashiwazaki City during the 2007 Niigata-ken Chuetsu-oki Earthquake / **Kota Katsumata** (Tokyo Institute of Technology)

Study of Ground Response of Three Cities of Kathmandu Valley of Nepal Using Microtremor Observations / **Youb Paudyal** (Ehime University)

Reliability Assessment of Tehran Province Gas Distribution Pipeline System during Liquefaction / **Danesh Nourzadeh** (University of Tehran)

Seismic Performance of a System of Interdependent Lifeline and Infrastructure Components / **Kalliopi Kakderi** (Aristotle University of Thessaloniki)

Numerical Study on Scour Problem Induced by Tsunami Flood / **Tso-Ren Wu** (National Central University)

**Y2-4 Young Researchers Session : Structural Concrete 2 (Chair : Chung-Chan Hung & Tomohiro Miki) W932**

Seismic Vulnerability and Structural Retrofitting of Municipal Theatre of Lima, Peru / **Luis Proano** (National University of Engineering)

Dynamic Identification of Rehabilitated Masonry Building by Ambient and Forced Vibration Tests / **Rafik Taleb** (National Center for Applied Research on Earthquake Engineering)

A Study on Failure Mechanism of RC Structures with Specially Shaped Columns with Consideration of Diaphragm using PushOver Analysis / **Pu Yang** (Chongqing University)

Attempts at Simulating Membrane Effects in Slabs using Finite Element Analysis / **Saurabh Prasad** (University of California)

Reinforced Concrete Beam-column Joint Strengthened by Ferrocement / **Bo Li** (The Hong Kong Polytechnic University)

Evaluation of the Damage Observed in a Reinforced Concrete Wall Building during the February 27, 2010 Chile Earthquake / **Fabian Rojas** (University of Southern California)

Preliminary Collapse Assessment of the Torre Alto Rio Building in The Mw = 8.8 February 27, 2010 Chile Earthquake / **Zeynep Tuna** (University of California)

**Y2-5 Young Researchers Session : Response Control 2 (Chair : Stephen Mahin & Kazuhiko Kasai) W931**

A Design Approach for Seismic Vibration Control of RC Building Structures Using Visco-elastic Damper / **Wuchuan Pu** (Tokyo Institute of Technology)

Seismic Response Analysis of Steel Moment Frames with Viscoelastic Dampers Based on Quasi-linear Motion Mechanism / **Jaedo Kang** (Nagoya University)

A Simplified Design Method for Energy-dissipated Structure with Viscous Dampers / **Chao Zhang** (Tongji University)

Seismic Performance of a Steel Self-centering Moment Resisting Frame: MCE-Level Hybrid Simulations and Quasi-static Pushover Experiments / **Ying-Cheng Lin** (Lehigh University)

Bio-inspired Passive Actuator for Structural Control / **Chun-Hung Lin** ( University of California)  
Development of Simplified Design Procedure for Structures with Magneto-rheological (MR) Dampers / **Yunbyeong Chae** (Lehigh University)

**Y2-7 Young Researchers Session : Engineering Seismology 2**  
**(Chair : Kuo-Liang Wen & Hiroaki Yamanaka) W833**

Surface Waves on an Exponentially Varying Transversely Isotropic Elastic Medium due to a Subsurface Point Load / **Priza Kayestha** (Tokyo Institute of Technology)  
Determination of Shallow Shear-wave Velocity Profiles and Site Amplification in Metro Manila, Philippines using Microtremor Array Observations / **Rhommel Grutas** (Tokyo Institute of Technology)  
Estimation of Surface-wave Group Velocity in the Kanto Basin using Seismic Interferometry of Long-term Microtremors / **Kosuke Chimoto** (Tokyo Institute of Technology)  
Coseismic Deformation of the 2008 Wenchuan, China Earthquake Calculated from Strong Motion Data / **Jyun-Yan Huang** (National Central University)  
2D Finite Difference Modeling of Wave Propagation of the 2010 JiaSian, Taiwan, Earthquake / **Chun-Te Chen** (National Central University)

**Parallel Session 3 15:35 ~ 17:15**

**S2-H Engineering Seismology 1 (Chair : Yousef Bozorgnia & Saburoh Midorikawa) Main Hall**

Major Ground Motion Research Programs at the Pacific Earthquake Engineering Research Center (PEER) / **Yousef Bozorgnia** (University of California)  
Statistical Features of Short-period and Long-period Near-source Ground Motions / **Masumi Yamada** (Kyoto University)  
Strong Motion Record Observed at Concepcion during the 2010 Chile Earthquake / **Saburoh Midorikawa** (Tokyo Institute of Technology)  
Correlation of Strong Ground Motion and Estimations of Seismic Hazard and Loss for Large Areas and Critical Elements of Network / **Vladimir Sokolov** (Karlsruhe Institute of Technology)  
Preliminary Study of New Attenuation Relationship for Response Spectra on Seismic Bedrock Including near Source Data / **Hongjun Si** (Kozo Keikaku Engineering Inc.)  
On the Effective Earthquake Early Warning Systems for Both Distant and Near Events / **Yutaka Nakamura** (System and Data Research)

**S2-1 Steel Structure 2 (Chair : Liping Liu & Kikuo Ikarashi) W933**

Experimental Evaluation of Composite Effects on Structural Behavior of Panel Zone / **Shoichi Kishiki** (Tokyo Institute of Technology)  
Cyclic Behaviour of Steel Tube-reinforced Concrete Composite Walls with High Axial Force Ratio / **Xiaodong Ji** (Tsinghua University)  
Experimental Study on the Development of a Tubular Damper For Use in Bolt Joints / **Seiji Mukaide** (Osaka University)  
A Sensitivity Study of Bolt Tension Effect on Seismic Response of Special Bolted Moment Frames / **Atsushi Sato** (Nagoya Institute of Technology)  
Which Spectral Shape Really Matter to Predict Nonlinear Structural Response: Application to Steel Frames / **Edén Bojórquez** (Universidad Autonoma de Sinaloa)

**S2-2 Tsunami (Chair : Anil Wijeyewickrema & Tatsuo Ohmachi) W935**

Residual Horizontal Displacement of Water Particles in the Vicinity of Tsunami Source / **Mikhail Nosov** (M.V. Lomonosov Moscow State University)  
Field Survey for 2010 Chilean Earthquake and Tsunami Disaster in Ports and Coasts / **Shigeo Takahashi** (Port and Airport Research Institute)  
Field Survey of the 2010 Tsunami in Chile / **Shunichi Koshimura** (Tohoku University)  
The Tsunami of Camana 2001 / **Cesar Jimenez** (University of San Marcos UNMSM)  
On Submarine Landslide Caused by the Suruga Bay Earthquake / **Toshitaka Baba** (Japan Agency for Marine-Earth Science and Technology)

**Y3-4 Young Researchers Session : Structural Concrete 3 (Chair : Sarah Billington & Yasuji Shinohara) W932**

Development of Partially Tube-confined Reinforced Concrete Ductile Moment Frame / **Yuntian Wu** (Chongqing University)

Estimation of Peak Impact Force due to Impact of Tsunami Water-borne Shipping Containers on RC Columns / **Kavinda Madurapperuma** (Tokyo Institute of Technology)  
Flexural Behavior of Belled Pile with High-strength Longitudinal Reinforcement / **Yo Hibino** (Tokyo Institute of Technology)  
Seismic Damage Mechanism Control of RC Ductile Frames from a Stiffness Point of View / **Zhe Qu** (Tokyo Institute of Technology)  
Seismic Analysis of RC Structure under Multiple Earthquakes / **Bin Wang** (Tongji University)  
Analytical Investigation on Seismic Behavior of Connections Between Precast RC Columns and Steel Beams / **Qiyun Zhu** (Tongji University)  
A Fundamental Study on Structural Performance of CES Shear Wall with Different Anchorage Condition of Wall Reinforcement / **Tomoya Matsui** (Toyohashi University of Technology)

**K3 Keynote Lecture 3 (Chair : Tatsuo Ohmachi) Main Hall 17:30 ~ 18:00**

**Martin Wieland**, Chairman, ICOLD Committee, Poyry Energy Ltd.

Seismic Behaviour of Large Dams During Recent Earthquakes and Current State of Seismic Design Criteria for Large Dams

**SL Special Lecture Main Hall 18:00 ~ 18:30**

Report on Earthquake at Christchurch, New Zealand

**Welcome Party Centennial Hall 18:30 ~ 20:00**

## March 8th

**Parallel Session 4 9:00 ~ 10:40**

**S3-H Engineering Seismology 2 (Chair : Ernesto Cruz & Hitoshi Morikawa) Main Hall**

Structural Damage of the 2010 Maule, Chile Earthquake / **Ernesto Cruz** (Chile Catolica University)

Evaluation of SRSND Simulator Against Fragility Curves for Pisco Quake / **Carlos Zavala** (Faculty of Civil Engineering Universidad Nacional de Ingeniería)

Land Use Evaluation using Satellite Imagery for Urban Inventories / **Miguel Estrada** (National University of Engineering)

Evaluation of Building Damage Areas of the 2006 Central Java, Indonesia Earthquake Detected from Satellite Optical Images / **Hiroyuki Miura** (Tokyo Institute of Technology)

Building Damage and Tsunami Inundation GIS Datasets after the 2010 Chile Earthquake / **Yoshihisa Maruyama** (Chiba University)

A New Data Logger with Large Dynamic-range to Observe from Microtremors to Strong Motions / **Hitoshi Morikawa** (Tokyo Institute of Technology)

**S3-1 Geotechnical Earthquake Engineering 1 (Chair : Steven Kramer & Jiro Takemura) W933**

Seismic Performance of Earth Slopes / **Ellen Rathje** (University of Texas at Austin)

Application of Discrete Element Method in Geogrid and Aggregate Interaction in a Reinforced Unpaved Roadway / **Wen-Chao Huang** (National Central University)

Finite Deformation Analysis of Earthquake Induced Damage to Breakwater during 1995 Hyogoken-nanbu Earthquake / **Kyohei Ueda** (Port and Airport Research Institute)

Performance Based Seismic Design Method of Gravity Quay Walls / **Heba Kamal** (Housing & Building National Research Center)

Centrifuge Model Tests on Dynamic Behavior of Quay Wall Backfilled with Granular Treated Soil / **Yoshiyuki Morikawa** (Port and Airport Research Institute)

Centrifuge Model Test of Fault Rupture Propagation in Alluvial Deposit / **Jiro Takemura** (Tokyo Institute of Technology)

Basic Study for Simulation of Behavior of Soil due to Cyclic Loading using Particle Method / **Tomohide Takeyama** (Tokyo Institute of Technology)

Seismic Hazard for Maximum Shear Stresses in Soil Layers at Oakland International Airport / **Tadahiro Kishida** (Chiba University)



- S3-2 Structural Concrete (Civil) (Chair : Mohamed ElGawady & Ken Watanabe) W935**  
 Behavior of FRP-Confined Capsule-shaped RC Columns under Lateral Loading / **Kiang Tan** (National University of Singapore)  
 Seismic Performance of a Coupled Wall with High Performance Fiber Reinforced Concrete / **Chung-Chan Hung** (National Central University)  
 Rapid Recovery Technique by Using Fiber Reinforced Composite for Damaged RC Column under Seismic Loading / **Minoru Kunieda** (Nagoya University)  
 Structural Behavior of Deep Beam with Deteriorated Anchorage of Main Reinforcement / **Akira Hosoda** (Yokohama National University)  
 Evaluation of Shear Resisting Mechanism of Partially Corroded RC Beams / **Tomohiro Miki** (Kobe University)  
 Evaluation Method for Load-carrying Capacity of Incompletely-grouted PC Girders with Broken Tendons / **Ken Watanabe** (Railway Technical Research Institute)

- S3-3 Response Control 1 (Chair : Xilin Lu & Kazuhiko Kasai) W934**  
 Probabilistic Evaluation of Collapse Potential of Structures with Magneto-Rheological (MR) Dampers / **James Ricles** (Lehigh University)  
 Use of Response Modification and Modular Construction Technologies for Next-generation Nuclear Power Plants / **Bozidar Stojadinovic** (University of California Berkeley)  
 The Seismic Responses of 14-Story RC Structures Installed with Three-pin Steel Damper / **Huei-Tsyr Chen** (National Central University)  
 Retrofit of Soft Story Structure using Seismic Isolation Technology / **Lieping Ye** (Tsinghua University)  
 Fundamental Study on Probabilistic Evaluation of the Ultimate State of Base Isolated Structures / **Toshiyuki Nakazawa** (Tokyo-Kenchiku Structural Engineers)  
 Seismic Design for a Resilient and Sustainable Society / **Victor Zayas** (Earthquake Protection Systems)

- Y4-4 Young Researchers Session : Steel Structure 2 (Chair : Gary Fry & Toru Takeuchi) W932**  
 A Method to Detect Structural Damage using High-frequency Seismograms / **Vanessa Heckman** (California Institute of Technology)  
 Dynamic Analysis of a Full-scale Four-story Steel Building Experimented to Collapse by Strong Ground Motions / **Tran Nam** (Tokyo Institute of Technology)  
 Performance of Steel Self-centering Braced Frame System During Intense Earthquake and Aftershock Ground Motions / **Nathan Chancellor** (Lehigh University)  
 Computer Modeling of Special Concentrically Braced Frame Structural Systems / **Po-Chien Hsiao** (University of Washington)  
 Three-Dimensional Tests of Two-story, One-bay by One-bay, Steel Concentric Braced Frames / **Keith Palmer** (University of Washington)  
 A Method for the Damage Assessment of Single-layer Latticed Shells by Performing Static Stability Analysis Twice / **Dabin Yang** (Beijing University of Technology)  
 Effect of Brace Fracture on Seismic Performance of Braced Frame / **Ryota Matsui** (Tokyo Institute of Technology)

#### Parallel Session 5 10:45 ~ 12:25

- S4-H Engineering Seismology 3 (Chair : Kuo-Liang Wen & Hiroaki Yamanaka) Main Hall**  
 Ground Motion and Tsunami Simulation for the Great 1707 Hiei, Japan, Earthquake / **Takashi Furumura** (The University of Tokyo)  
 Nonlinear Site Response of the 2008 Wenchuan, China Earthquake From Time-frequency Analysis / **Kuo-Liang Wen** (National Central University)  
 Estimation of Shallow 2D S-wave Velocity Profile from Waveform Inversion of Seismic Refraction Data / **Hiroaki Yamanaka** (Tokyo Institute of Technology)  
 Earthquake Input Motion to High-rise Building in the Western Part of Kobe City During the 1995 Hyogo-ken Nanbu Earthquake / **Masayuki Nagano** (Tokyo University of Science)  
 Sensitivity of Ground Response Analysis to Shear Wave Velocity Profile / **Pulpong Pongvithayapanu** (Kasetsart University)

- S4-1 Geotechnical Earthquake Engineering 2 (Chair : Ellen Rathje & Akihiro Takahashi) W933**  
 Effects of Initial static Shear Strain Localization Characteristics of Sand in Undrained Cyclic Torsional Shear Tests / **Junichi Koseki** (University of Tokyo)

Ground Settlements and Earth Pressures around Embedded Foundations Subjected to Strong Ground Shaking / **Kohji Tokimatsu** (Tokyo Institute of Technology)

Dynamic Soil-structure-interaction of Shallow Foundations on Dry Sand - A Centrifuge Based Study / **Stuart Haigh** (University of Cambridge)

Impulsive Vertical Acceleration Caused by Foundation Uplift during Earthquake / **Shuji Tamura** (Kyoto University)

Effects of Sway-Rocking Motion on Pile Stresses during Large Shaking Table Tests / **Hiroko Suzuki** (Tokyo Institute of Technology)

Comparative Study on Effect of Liquefiable Soil-structure Interaction by Shaking Table Test / **Peizhen Li** (Tongji University)

Dynamic Centrifuge Model Test of Pile-supported Building Model with Semi-rigid Pile Head Connections in Liquefiable Soil / **Sadayuki Ishizaki** (Technology Center, Taisei Corp.)

Seismic Response of Pile Foundation in Sloping Ground / **Akihiro Takahashi** (Tokyo Institute of Technology)

#### **S4-2 Bridge (Chair : Ian Buckle & Chitoshi Miki) W935**

Seismic Design of Highway Bridges in California / **Lian Duan** (California Department of Transportation)

Seismic Behavior of Curved Steel-girder Highway Bridges / **Ian Buckle** (University of Nevada)

Seismic Performance of Twin-cell Hollow Composite Members / **Hsieh-Lung Hsu** (National Central University)

Scale Effects of Reinforced Concrete Columns under Shake Table Testing: Phase I - Full Scale Test Results / **Jose Restrepo** (University of California)

Response of Bridge under Seismic Load Including Collisions / **Eiki Yamaguchi** (Kyushu Institute of Technology)

Performance-based Seismic Assessment of Skewed Bridges / **Farzin Zareian** (University of California, Irvine)

#### **S4-3 Response Control 2 (Chair : Victor Zayas & Atsushi Sato) W934**

China-Japan (NSFC-JST) Research on Use of Dampers for Repair of RC Building Damaged During 2008 Wenchuan Earthquake Part 1: Analytical Simulation Based on Full-Scale Damper Tests / **Xilin Lu** (Tongji University)

China-Japan (NSFC-JST) Research on Use of Dampers for Repair of RC Building Damaged During 2008 Wenchuan Earthquake Part 2: Design Method for RC Building Repair Using Dampers / **Kazuhiko Kasai** (Tokyo Institute of Technology)

Torsional Vibration Control of High-rising Structure with Large Local Space by Using Bidirectional TMD / **Bin Zhao** (Tongji University)

Achieving Enhanced Seismic Performance of Tall Buildings Through Base Isolation / **Troy Morgan** (Tokyo Institute of Technology)

Concepts for the Design of Mass Isolated Steel Buildings / **Gary Fry** (Texas A&M University)

#### **Parallel Session 6 13:20 ~ 15:00**

#### **S5-H Risk Management 1 (Chair : Hideki Kaji & Yasuhide Okuyama) Main Hall**

Socio Economic Disaster Risk Assessment of ASEAN Countries / **Jerry Velasquez** (United Nations International Strategy for Disaster Reduction)

Seismic Risk Evaluation Based on Digital Mapping of a Romanian Urban Area / **Ana Toma** (Technical University "Gheorghe Asachi" of Iasi)

Strategic Firefighting Operation to Mitigate Fire Damage Risk in a Near-field Earthquake in the Metropolis of Tokyo - Analysis of the Relationship between the Timing of the Switch to Firefighting Operation and Damage Reduction - / **Eiichi Itoigawa** (University of Tsukuba)

Rescheduling Timetables of Taiwan High-speed Rail System using Optimization and Decision Tree / **Chien-Cheng Chou** (National Central University)

Study of Self-risk Management of Local Residents for Earthquake Disaster / **Masami Kobayashi** (Kyoto University)

Long-run Effects of a Disaster: Measuring the Economic Impacts of the Kobe Earthquake / **Yasuhide Okuyama** (Tokyo Institute of Technology)

#### **S5-1 Geotechnical Earthquake Engineering 3 (Chair : Ross Boulanger & Osamu Kusakabe) W933**

Aging Effect on Liquefaction Strength and Cone Resistance of Fines-containing Sand Investigated in Triaxial Apparatus / **Takaji Kokusho** (Chuo University)

Estimating Shear Modulus vs Strain from Field Measurements / **Giovanna Biscontin** (Texas A&M University)

E-Defense Shaking Table Tests for Geotechnical Engineering Research Projects - Summary of the First Phase and Introduction of Test Series in the Second Phase - / **Yohsuke Kawamata** (National Institute for Earth Science and Disaster Prevention)

The Generalized Scaling Law for Liquefiable Sand Deposit - Causes of Discrepancy at Low Centrifugal Accelerations - / **Tetsuo Tobita** (Kyoto University)

Blast-induced Liquefaction for Earthquake Studies / **Scott Ashford** (CH2M HILL)

Centrifuge Modeling on the Seismic Responses of Sandy Deposit with a Thin Silt Seam / **Chung-Jung Lee** (National Central University)

**S5-2 Structural Concrete (Building 1) (Chair : Huanjun Jiang & Hiroyasu Sakata) W935**

Deformability Models for Shear Critical Reinforced Concrete Members / **Sung-Gul Hong** (Seoul National University)

Effect of Crack Configuration, Axial Load, and Shear Reinforcement upon Hysteresis Characteristics of High-strength RC Columns / **Yasuji Shinohara** (Tokyo Institute of Technology)

A Simplified Numerical Approach to Cumulated Damage Effects on Seismic Performance of Existing RC Frame Structures / **Jiang Qian** (Tongji University)

Non-linear FE Analysis of Post-tensioned Precast Concrete Wall / **Tetsuya Ohmura** (Tokyo City University)

Seismic Behavior of L-Shaped Core-Walls / **Susumu Kono** (Kyoto University)

Development of an Energy Dissipation Device for Prestressed Concrete Members / **Yasushi Sanada** (Toyoashi University of Technology)

**S5-3 Monitoring (Chair : Moh-Jiann Huang & Kazuhiko Kasai) W934**

Seismic Instrumentation of Buildings by the California Strong Motion Instrumentation Program / **Moh-jiann Huang** (California Geological Survey)

Strong Motion Observation for Buildings by Building Research Institute / **Toshihide Kashima** (Building Research Institute)

Building Health Monitoring and Diagnosis from Earthquake Response Records / **Chi-Chang Lin** (National Chung Hsing University)

Observation of Strong Earthquake Motion at Public Works by NILIM / **Shojiro Kataoka** (National Institute for Land and Infrastructure Management)

A New Approach for Strong-motion Observation using Low-cost Sensors in Collaboration with Nonprofessional Partners / **Jun Tobita** (Nagoya University)

**Parallel Session 7 15:05 ~ 16:45**

**S6-H Risk Management 2 (Chair : Hiroaki Maruya & Satoru Nishikawa) Main Hall**

Earthquake Preparedness and BCM in Japan / **Shinichi Okabe** (Tohoku University)

Quantitative Risk Analysis Approach for BCP (Business Continuity Planning) Decision Making against Earthquakes / **Satoru Nishikawa** (Ministry of Land Infrastructure Transport and Tourism)

“Disaster Prevention” and Business Continuity: Linguistic and Cultural Pitfalls for Implementing Effective BCM in Japan / **Nathan Rhoden** (Crisis Management & Preparedness Organization)

Tokyo Inland Earthquakes and Business Continuity of Companies/Organization / **Hiroaki Maruya** (Tokyo Institute of Technology)

Business Continuity Planning at Universities -A Case Study on Tokyo-Tech Suzukakedai Campus- / **Hideki Kaji** (Tokyo Institute of Technology)

**S6-1 Geotechnical Earthquake Engineering 4 (Chair : Scott Ashford & Takaji Kokusho) W933**

Performance-based Post-liquefaction Settlement Hazard Evaluation / **Steven Kramer** (University of Washington)

Geotechnical Aspects of the 2010 Darfield (New Zealand) Earthquake / **Rolando Orense** (University of Auckland)

Liquefaction-induced Damage in Christchurch City Caused by the 2010 Darfield Earthquake, New Zealand / **Takashi Kiyota** (University of Tokyo)

Strong Ground Motions and Site Effects of the 2010 Chile Earthquake / **Toru Sekiguchi** (Chiba University)

Seismic Risk Performance of Urban Transportation Systems Considering Site Effects and Interaction with the Built Environment / **Sotirios Argyroudis** (Aristotle University of Thessaloniki)

Pipeline Failure in Earthquakes: Should Active Fault Traces BE Considered a Serious Hazard to Buried Pipelines? / **Subhamoy Bhattacharya** (University of Bristol)

Estimation of Site Effects based on Recorded Data and the Ground Motion Attenuation Relationship / **Huseyin Kuyuk** (The University of Tokyo)

**S6-2 Structural Concrete (Building 2) (Chair : Sung-Gul Hong & Shizuo Hayashi) W935**

Response of High Performance Fiber Reinforced Concrete Infill Panels Retrofitting Steel Moment-resisting Frames / **Sarah Billington** (Stanford University)

Damage Investigation of Reinforced Concrete Buildings at the 2010 Chile Earthquake / **Taiki Saito** (Building Research Institute)

Seismic Fragility Analysis of RC Frame Structures / **Huanjun Jiang** (Tongji University)

Study on Influences of Construction Joints and Multi-layered Longitudinal Bars on Restoring Force Characteristics in R/C Cantilever Beams / **Koshiro Nishimura** (Tokyo Institute of Technology)

Experimental Study on Bonding Action with Neutron Diffraction Technique / **Koichi Kusunoki** (Yokohama National University)

Vibration Characteristics of Traditional Adobe-quincha Buildings Located at Lima Historic Centre / **Carlos Cuadra** (Akita Prefectural University)

Experimental Shear Strength of Squat Masonry Shear Walls / **Mohamed ElGawady** (Tokyo Institute of Technology)

#### **S6-3 Design & Standards 2 (Chair : Yingmin Li & Hideki Kit Yamamoto) W934**

Seismic Separation of Adjacent Building / **James Anderson** (University of Southern California)

Evaluation of the Policies for Seismic Retrofit of Buildings / **Shoichi Ando** (The University of Tokyo)

Seismic Vulnerability Index Method: Algerian Case Studies / **Mahmoud Bensaïbi** (University Saad Dahleb)

Revitalization of Circular Concrete Columns by High Performance Ferrocement / **Eddie Lam** (The Hong Kong Polytechnic University)

#### **S6-4 Non-structural Components (Chair : Manos Maragakis & Shojiro Motoyui) W932**

Development of Shake Table Motions for Simulation of the Seismic Response of Nonstructural Systems / **Manos Maragakis** (University of Nevada)

Shaking Table Test for the Examination of the Pounding Phenomenon between Sprinkler Heads and Ceilings / **Kunio Mizutani** (Tokyo Polytechnic University)

Mechanical Characteristics of Metal Joint Parts in Japanese Style of Ceiling / **Shojiro Motoyui** (Tokyo Institute of Technology)  
Ceiling Damage in the 2010 Canterbury Earthquake / **Rajesh Dhakal** (University of Canterbury)

#### **K4 Keynote Lecture 4 (Chair : Martin Wieland) Main Hall 17:00 ~ 17:30**

**Tatsuo Ohmachi**, Professor, Tokyo Institute of Technology

Reflections on Evolution of Near-field Earthquake Engineering

#### **K5 Keynote Lecture 5 (Chair : Stephen Mahin) Main Hall 17:30 ~ 18:00**

**Akira Wada**, Professor, Tokyo Institute of Technology

Wise Dynamic Testing for Enhanced Understanding of Structures

#### **Closing Session (Chair : Ross Boulanger) Main Hall 18:00 ~ 18:30**

Award Presentation / **Kohji Tokimatsu** (Tokyo Institute of Technology)

Closing Remarks / **Saburoh Midorikawa** (Tokyo Institute of Technology)

#### **Banquet Shinagawa Prince Hotel 19:00 ~ 21:30**





# INDEX

Last	First	Session	Paper-ID	Last	First	Session	Paper-ID	Last	First	Session	Paper-ID
Adriano	Bruno	Y1-6	18-160	ElGawady	Mohamed	S6-2	07-089	Kasai	Kazuhiko	S3-3	Chair
Allmond	Jacquelyn	Y1-3	02-265	Estrada	Miguel	S3-H	14-181	Kasai	Kazuhiko	S4-3	08-282
Anderson	James	S6-3	11-258	Frankie	Thomas	Y1-9	06-220	Kasai	Kazuhiko	S5-3	Chair
Ando	Shoichi	S6-3	10-078	Fry	Gary	S4-3	05-304	Kasai	Kazuhiko	Y2-5	Chair
Ardebili	Mohammad	Y1-1	10-031	Fry	Gary	Y4-4	Chair	Kashima	Toshihide	S5-3	11-207
Argyroudis	Sotirios	S6-1	03-065	Fujii	Haruyuki	S1-2	17-178	Kataoka	Shojiro	S5-3	19-295
Asada	Hayato	Y1-1	05-014	Furumura	Takashi	S4-H	18-280	Katsumata	Kota	Y2-3	02-169
Ashford	Scott	S5-1	02-266	Grutas	Rhommel	Y2-7	01-113	Kawamata	Yohsuke	S5-1	02-015
Ashford	Scott	S6-1	Chair	Guerrini	Gabriele	Y1-9	08-144	kawashima	kazuhiko	K1	Chair
Athanasiou	Anastasia	Y1-5	07-138	Haigh	Stuart	S4-1	02-192	Kayestha	Priza	Y2-7	01-123
Bedrinana	Luis	Y1-8	12-259	Hayashi	Shizuo	S6-2	Chair	Kishida	Tadahiro	S3-1	02-115
Bensaibi	Mahmoud	S6-3	12-010	Heckman	Vanessa	Y4-4	05-225	Kishiki	Shoichi	S2-1	05-033
Bhattacharya	Subhamoy	S6-1	03-145	Hibino	Yo	Y3-4	04-276	Kiyota	Takashi	S6-1	15-188
Billington	Sarah	S6-2	08-217	Hida	Takenori	Y1-3	02-006	Kobayashi	Masami	S5-H	16-263
Billington	Sarah	Y3-4	Chair	Hokugo	Akihiko	S1-2	17-309	Kokusho	Takaji	S5-1	02-353
Biscontin	Giovanna	S5-1	02-091	Hong	Sung-Gul	S5-2	04-110	Kokusho	Takaji	S6-1	Chair
Bojórquez	Edén	S2-1	05-175	Hong	Sung-Gul	S6-2	Chair	Kolesov	Sergey	Y1-6	18-137
Boulanger	Ross	K2	02-142	Hosoda	Akira	S3-2	04-251	Kono	Susumu	S5-2	04-226
Boulanger	Ross	S5-1	Chair	Hsiao	Po-Chien	Y4-4	05-357	Koshimura	Shunichi	S2-2	18-108
Boulanger	Ross	Y1-3	Chair	Hsu	Hsieh-Lung	S4-2	06-184	Koseki	Junichi	S4-1	02-340
Bozorgnia	Yousef	S1-H	10-224	Huang	Jyun-Yan	Y2-7	01-051	Kramer	Steven	S3-1	Chair
Bozorgnia	Yousef	S2-H	01-229	Huang	Moh-jiann	S5-3	Chair	Kramer	Steven	S6-1	02-275
Bozorgnia	Yousef	S2-H	Chair	Huang	Moh-jiann	S5-3	01-252	Kumagai	Tomohiko	S1-1	05-167
Bozorgnia	Yousef	Y1-7	Chair	Huang	Wen-Chao	S3-1	02-097	Kunieda	Minoru	S3-2	04-099
Buckle	Ian	S4-2	Chair	Hung	Chung-Chan	S3-2	07-158	Kuo	Chun-Hsiang	Y1-7	14-156
Buckle	Ian	S4-2	06-310	Hung	Chung-Chan	Y2-4	Chair	kusakabe	Osamu	S5-1	Chair
Buckle	Ian	Y1-9	Chair	Hussien	Mahmoud	Y1-3	02-250	kusakabe	Osamu	Y2-3	Chair
Calderon	Diana	Y2-3	02-205	Ikarashi	Kikuo	S2-1	Chair	Kusunoki	Koichi	S6-2	04-093
Calugaru	Vladimir	Y1-5	04-268	Ishida	Takanori	Y1-1	05-016	Kuyuk	Huseyin	S6-1	01-243
Chae	Yunbyeong	Y2-5	08-293	Ishizaki	Sadayuki	S4-1	02-026	Lam	Eddie	S6-3	10-361
Chancellor	Nathan	Y4-4	05-133	Itoigawa	Eiichi	S5-H	16-165	Lee	Chung-Jung	S5-1	02-094
Chen	Chun-Te	Y2-7	01-075	Javelaud	Emmanuel	Y1-7	01-139	Li	Bo	Y2-4	04-239
Chen	Huei-Tsyr	S3-3	07-312	Ji	Xiaodong	S1-1	Chair	Li	Peizhen	S4-1	02-036
Cheng	Fei-Wen	Y1-7	01-053	Ji	Xiaodong	S2-1	07-096	Li	Yingmin	S1-H	10-162
Chian	Siau	Y2-3	02-302	Jiang	Huanjun	S5-2	Chair	Li	Yingmin	S6-3	Chair
Chimoto	Kosuke	Y2-7	01-148	Jiang	Huanjun	S6-2	04-070	Lignos	Dimitrios	S1-1	05-216
Chou	Chien-Cheng	S5-H	14-146	Jiao	Yu	Y1-1	05-122	Lin	Chi-Chang	S5-3	11-240
Chu	Chih-Yuan	S1-2	17-126	Jimenez	Cesar	S2-2	18-140	Lin	Chun-Hung	Y2-5	08-027
Clayton	Patricia	Y1-1	05-212	Jongvivatsakul	Pitcha	Y1-4	04-061	Lin	Kuei-Mei	Y1-7	01-052
Cocjin	Michael	Y1-3	02-132	Kaji	Hideki	S5-H	Chair	Lin	Sheng-Lin	Y1-8	12-134
Cruz	Ernesto	S3-H	Chair	Kaji	Hideki	S6-H	16-262	Lin	Ying-Cheng	Y2-5	11-209
Cruz	Ernesto	S3-H	12-291	Kaji	Hideki	Y1-8	Chair	Liu	Liping	S1-1	01-164
Cuadra	Carlos	S6-2	07-040	Kakderi	Kalliopi	Y2-3	03-255	Liu	Liping	S2-1	Chair
Cui	Yao	Y1-1	05-157	Kamai	Ronnie	Y1-3	02-025	Lombardi	Domenico	Y1-3	02-141
Dhakal	Rajesh	S6-4	09-355	Kamal	Heba	S3-1	02-082	Lu	Xilin	S3-3	Chair
Duan	Lian	S4-2	06-245	Kanda	Jun	S1-H	16-284	Lu	Xilin	S4-3	50-339
ElGawady	Mohamed	S3-2	Chair	Kang	Jaedo	Y2-5	08-172	Ma	Xue	Y1-8	17-147

Last	First	Session	Paper-ID	Last	First	Session	Paper-ID	Last	First	Session	Paper-ID
Madurapperuma	Kavinda	Y3-4	04-084	Numada	Muneyoshi	Y1-2	11-117	Sato	Yoshiyuki	Y1-7	01-100
Mahin	Stephen	K1	08-076	Ogawa	Toshiyuki	S1-1	Chair	Sekiguchi	Toru	S6-1	15-176
Mahin	Stephen	K5	Chair	Ohmachi	Tatsuo	K3	Chair	Shakya	Kabir	Y1-4	04-066
Mahin	Stephen	Y2-5	Chair	Ohmachi	Tatsuo	K4	15-098	Shibayama	Shuhei	Y2-3	02-228
Mahmoud	Sayed	Y1-5	07-073	Ohmachi	Tatsuo	S2-2	Chair	Shimada	Yuko	Y1-1	05-104
Maragakis	Manos	S6-4	Chair	Ohmura	Tetsuya	S5-2	04-007	Shinohara	Yasuji	S5-2	04-305
Maragakis	Manos	S6-4	09-174	Okabe	Shinichi	S6-H	19-127	Shinohara	Yasuji	S3-4	Chair
Maruya	Hiroaki	S6-H	Chair	Okuyama	Yasuhide	S5-H	Chair	Si	Hongjun	S2-H	01-206
Maruya	Hiroaki	S6-H	16-154	Okuyama	Yasuhide	S5-H	16-008	Sokolov	Vladimir	S2-H	01-009
Maruyama	Yoshihisa	S3-H	15-071	Oliveto	Giuseppe	S1-H	15-211	Spyrakos	Constantine	S1-H	Chair
Matsuda	Kazuhiro	Y1-6	07-283	Oliveto	Giuseppe	Y1-2	Chair	Spyrakos	Constantine	S1-H	01-068
Matsui	Ryota	Y4-4	05-047	Orense	Rolando	S6-1	02-037	Srinivas	Hari	S1-2	Chair
Matsui	Tomoya	Y3-4	04-288	Osaragi	Toshihiro	S1-2	17-151	Srinivas	Hari	S1-2	17-308
Matsumoto	Hiroyuki	S2-2	18-200	Osaragi	Toshihiro	Y1-8	Chair	Stojadinovic	Bozidar	S3-3	10-272
Matsumoto	Koji	Y1-4	04-143	Palmer	Keith	Y4-4	05-344	Suwal	Laxmi	Y2-3	02-017
Midorikawa	Saburoh	S2-H	01-112	Pan	Chao	Y1-1	08-054	Suzuki	Hiroko	S4-1	02-150
Midorikawa	Saburoh	S2-H	Chair	Pang	Weichiang	Y1-6	07-135	Takada	Akinobu	Y1-1	05-034
Midorikawa	Saburoh	Y1-7	Chair	Pant	Deepak	Y1-5	04-103	Takahashi	Akihiro	S4-1	Chair
Mieler	Michael	Y1-2	10-237	Paudyal	Youb	Y2-3	02-072	Takahashi	Akihiro	S4-1	02-204
Miki	Tomohiro	S3-2	04-270	Poiata	Natalia	Y1-7	01-202	Takahashi	Shigeo	S2-2	18-299
Miki	Chitoshi	S4-2	Chair	Pongvithayapanu	Pulpong	S4-H	11-012	Takemura	Jiro	S3-1	Chair
Miki	Chitoshi	Y1-9	Chair	Poursha	Mehdi	Y1-2	11-004	Takemura	Jiro	S3-1	02-313
Miura	Hiroyuki	S3-H	01-102	Prasad	Saurabh	Y2-4	04-233	Takeuchi	Toru	S1-1	05-041
Miyamoto	Hideki	S1-H	11-080	Proaño	Luis	Y2-4	04-166	Takeuchi	Toru	Y1-5	Chair
Miyamoto	Hideki	S6-3	Chair	Pu	Wuchuan	Y2-5	08-221	Takeuchi	Toru	Y4-4	Chair
Mizutani	Kunio	S6-4	09-354	Qian	Jiang	S5-2	04-194	Takeyama	Tomohide	S3-1	02-218
Morgan	Troy	S4-3	08-222	Qian	Zheng-Hua	Y1-7	01-064	Taleb	Rafik	Y2-4	07-177
Morikawa	Hitoshi	S3-H	Chair	Qu	Zhe	Y3-4	04-190	Tamura	Shuji	S4-1	02-128
Morikawa	Hitoshi	S3-H	01-116	Quinay	Pher	Y1-7	07-106	Tan	Kiang	S3-2	04-281
Morikawa	Yoshiyuki	S3-1	02-107	Rachma	Syam	Y1-8	17-159	Tan	Kiang	Y1-4	Chair
Morita	Masashi	Y1-8	01-109	Rao	Anirudh	Y1-9	13-247	Tantipidok	Patarapol	Y1-4	04-059
Motoyui	Shojiro	S6-4	Chair	Rathje	Ellen	S3-1	02-045	Thiravechyan	Parisara	Y1-5	11-296
Motoyui	Shojiro	S6-4	09-297	Rathje	Ellen	S4-1	Chair	Tobita	Jun	S5-3	19-163
Mukaide	Seiji	S2-1	05-125	Rathje	Ellen	Y2-3	Chair	Tobita	Tetsuo	S5-1	02-230
Nagano	Masayuki	S4-H	01-028	Restrepo	Jose	S4-2	06-271	Tokimatsu	Kohji	K2	Chair
Nakamura	Yutaka	S2-H	01-223	Rhoden	Nathan	S6-H	16-238	Tokimatsu	Kohji	S4-1	02-001
Nakazawa	Toshiyuki	S3-3	07-185	Ricles	James	S3-3	08-298	Tokimatsu	Kohji	Y1-3	Chair
Nam	Tran	Y4-4	05-273	Roeder	Charles	S1-1	05-155	Toma	Ana	S5-H	12-124
Nguyen	Hung	Y1-9	06-063	Roeder	Charles	Y1-1	Chair	Tsuno	Seiji	Y1-7	01-021
Nishikawa	Eisuke	Y1-6	07-101	Rojas	Fabian	Y2-4	04-248	Tuna	Zeynep	Y2-4	04-260
Nishikawa	Satoru	S6-H	Chair	Saito	Taiki	S6-2	04-077	Ueda	Kyohei	S3-1	02-195
Nishikawa	Satoru	S6-H	16-050	Sakata	Hiroyasu	S5-2	Chair	Velasquez	Jerry	S5-H	16-219
Nishimura	Koshiro	S6-2	04-114	Sakata	Hiroyasu	Y1-6	Chair	Wada	Akira	K5	10-311
Niwa	Junichiro	Y1-4	Chair	Sanada	Yasushi	S5-2	04-119	Wada	Akira	K1	Chair
Nosov	Mikhail	S2-2	18-035	Sato	Atsushi	S2-1	05-081	Wada	Akira	Y1-2	Chair
Nosov	Mikhail	Y1-6	Chair	Sato	Atsushi	S4-3	Chair	Wang	Bin	Y3-4	11-086
Nourzadeh	Danesh	Y2-3	03-022	Sato	Yasuaki	Y1-2	09-044	Watanabe	Ken	S3-2	Chair

Last	First	Session	Paper-ID	Last	First	Session	Paper-ID	Last	First	Session	Paper-ID
Watanabe	Ken	S3-2	04-079	Xu	Yuxiang	Y1-5	01-246	Yoshinari	Hidetoshi	Y1-8	01-180
Watanabe	Koji	Y1-3	02-197	Yamada	Masumi	S2-H	01-069	Zafra	Richelle	Y1-9	06-105
Wei	Yu-Chen	Y1-3	02-120	Yamada	Satoshi	S1-1	05-042	Zaineh	Hussam	Y1-7	01-121
Wen	Kuo-Liang	S4-H	Chair	Yamada	Satoshi	Y1-1	Chair	Zareian	Farzin	S4-2	06-290
Wen	Kuo-Liang	S4-H	01-083	Yamaguchi	Eiki	S4-2	05-307	Zavala	Carlos	S3-H	12-179
Wen	Kuo-Liang	Y2-7	Chair	Yamanaka	Hiroaki	S4-H	Chair	Zayas	Victor	S3-3	10-136
Wieland	Martin	K3	15-023	Yamanaka	Hiroaki	S4-H	01-182	Zayas	Victor	S4-3	Chair
Wieland	Martin	K4	Chair	Yamanaka	Hiroaki	Y2-7	Chair	Zayas	Victor	Y1-5	Chair
Wijerathne	Maddeggedara	Y1-2	11-048	Yamazaki	Yoshihiro	Y1-6	07-171	Zhang	Chao	Y2-5	10-032
wijeyewickrema	Anil	S2-2	Chair	Yanagisawa	Hideaki	Y1-6	18-152	Zhang	Guangfeng	Y1-9	06-264
Wu	Stephen	Y1-8	11-278	Yang	Dabin	Y4-4	05-336	Zhao	Bin	S4-3	08-131
Wu	Tso-Ren	Y2-3	18-087	Yang	Pu	Y2-4	04-189	Zhou	Youhao	Y1-3	02-170
Wu	Yuntian	Y3-4	04-095	Ye	Lieping	S3-3	08-062	Zhu	Qiyun	Y3-4	07-193

