

Programme of the Thirteenth International Summer Symposium

**26 August 2011
Uji, Japan**

**International Activities Committee
Japan Society of Civil Engineers**

Time Table and Presentation Room

	Room 1 (Kihada Hall)	Room 2 (Seminar Room 1 & 2)	Room 3 (Seminar Room 4 & 5)	Room 4 (S-519D)	Room 5 (S-207D)
8:45~	Registration				
9:15~ 9:30	Opening Ceremony				
9:40~10:50	A1 Earthquake Engineering (1) Chair: Yoshikazu Takahashi	B1 Coastal Engineering and Evacuation Chair: Eiji Harada	C1 Soil Mechanics (1) Chair: Netra Prakash Bhandary	D1 Transportation Chair: Muneta Yokomatsu	G1 Environmental System Chair: Gakuji Kurata
11:00~12:10	A2 Structural Engineering (1) Chair: Yoshikazu Takahashi	B2 Hydraulic Engineering Chair: Shinichiro Onda	C2 Soil Mechanics (2) Chair: Mamoru Mimura	D2 Planning and Design Chair: Michinori Hatayama	G2 Environment Chair: Shinya Echigo
13:20~14:20	Lunch				
14:30~15:40	A3 Earthquake Engineering (2) Chair: Yasuko Kuwata	B3 Hydrology (1) Chair: Sunmin Kim	C3 Rock Engineering and Foundation Engineering Chair: Shoichiro Hamamoto	B5 Environmental Hydraulics Chair: Makoto Takeda	E1 Concrete Engineering Chair: Takashi Yamamoto ~16:00
15:50~17:00	A4 Structural Engineering (2) Chair: Katsuyoshi Nozaka	B4 Hydrology (2) Chair: Daisuke Nohara	C4 Environmental Geotechnics Chair: Toru Inui	C5 F1 Geotechnical Engineering and Construction Technology Chair: Yosuke Yamashiki	
17:10~	Excellent Presentation Award & Reception Party (at Hybrid Space, Uji Obaku Plaza)				

Room 1 (Kihada Hall, Uji Obaku Plaza)

9:15 - 9:30

Opening Ceremony

9:40 – 10:50

A1 Earthquake Engineering (1), Chair: Yoshikazu Takahashi (Kyoto University)

- A1-1 Stability of Design Ground Motion Synthesized by Using Nonlinear Response Based Feature Indices
Tauqir Ahmed (The University of Tokyo)
- A1-2 Preliminary Discussion of Surface Topography Effect on Long Period Ground Motion Distribution in Kanto Region
Tilak Pokharel (The University of Tokyo)
- A1-3 Dynamic Testing of Masonary House Models Retrofitted by Bamboo Band Meshes
Rajendra Soti (The University of Tokyo)
- A1-4 Pre-Stress Baked Clay Structural Panels
Abdul Aziz Ansari (Quaid-e-Awam University of Engineering Science & Technology)

11:00 – 12:10

A2 Structural Engineering (1), Chair: Yoshikazu Takahashi (Kyoto University)

- A2-1 Effect of the Bearing Stiffener Damage on Ultimate Bearing Strength of the Corroded Plate Girder
Nauman Khurram (Yokohama National University)
- A2-2 Performance Evaluation of an Energy Dissipator in a Rockfall Protective Cable-Net Structure
Shanker Dhakal (Ehime University)
- A2-3 Simulation of Shear Behavior of RC Members Using High-Strength Concrete
S.V.T. Janaka Perera (Saitama University)
- A2-4 An Analysis of Non-Linear Behavior of Reinforced Concrete Element under Low Velocity Impact Load
Shahrul Niza Mokhtatar (Kyushu University)
- A2-5 STG Presentation
Chua Yie Sue (University Science of Malaysia)

13:20 – 14:20

Keynote Lecture

Applications of Soft Computing in Civil Engineering

Prof. Hitoshi Furuta (Kansai University, Former Chair of International Activities Committee, JSCE)

14:30 – 15:40

A3 Earthquake Engineering (2), Chair: Yasuko Kuwata (Kobe University)

- A3-1 Empirical Relationship between Ground Surface Rupture and Source Fault Parameters
Naser Amirhesari (Yokohama National University)
- A3-2 Proposal for System Strength Index of Water Supply Pipeline Network at Earthquakes Using Topological Index
Tasuku Okamoto (Kobe University)
- A3-3 Vulnerability Analysis of Padang-Indonesia Water Network
Mahdi Faraji (Kyoto University)

A3-4 Proposal of Seismic Hazard Map for Indonesia Based on the Latest Earthquake Catalogs
Rusnardi Rahmat Putra (Kyoto University)

A3-5 A General Review on Building Construction Practices in Nepal
Sushma Chaudhary (School of Civil Engineering and Architecture)

15:50 – 17:00

A4 Structural Engineering (2), Chair: Katsuyoshi Nozaka (Ritsumeikan University)

A4-1 Ultimate Strength Behaviour of Continuous Composite Girders with Different Shear Connectors
Weiwei Lin (Waseda University)

A4-2 Earthquake Response Analysis of Fatigue Retrofitted Existing Steel Bridge Frame Piers
Koji Kinoshita (Gifu University)

A4-3 Improvement of Fatigue Strength of Out-of-Plane Gusset Joints under Plate Bending by Ultrasonic Peening
Koji Kinoshita (Gifu University)

A4-4 Nonlinear Static Study on Group Studs under Biaxial Action
Xu Chen (Kyoto University)

A4-5 Nonlinear Static Pushover (NSP) Analysis for Evaluation of Seismic Design Motion in Low Seismicity Areas:
A Case Study for Malaysia
Sherliza Zaini Sooria (Kyoto University)

Room 2 (Seminar Room 1 & 2, Uji Obaku Plaza)

9:40 – 10:50

B1 Coastal Engineering and Evacuation, Chair: Eiji Harada (Kyoto University)

B1-1 Multiagent-Based Flood Evacuation Simulation Model Considering the Effect of Congestions and Obstructions on the Pathway
Kengo Hanajima (Kyoto University)

B1-2 Planning of Evacuation Process against Tsunami Disaster at Miami Beach in Penang, Malaysia Using Crowd Behavior Simulator
Muhammad Salleh Abustan (Kyoto University)

B1-3 On Tsunami Elevation Variation in Narrow Bays during the East Japan Great Tsunami Disaster 311 Event
Dinar Istiyanto (ICHARM)

B1-4 Numerical Analysis on Characteristics of Currents in Yatsushiro Sea and Ariake Sea
Sha Lou (Nagasaki University)

11:00 – 12:10

B2 Hydraulic Engineering, Chair: Shinichiro Onda (Kyoto University)

B2-1 One Dimensional Depth Averaged Velocity Deformation Model for Unsteady Open Channel Flows
Manojkumar Langhi (Kyoto University)

B2-2 Basic Characteristics on Invasion Processes of Tsunamis over a Land Based on Self-Similarity Distribution Analysis
Hidekazu Shirai (Kyoto University)

B2-3 Data Processing Procedure for Irregular Mesh Inundation Simulation Models: Toward Development of a GIS Based Inundation Simulation System
Xinyu Jiang (Kyoto University)

B2-4 Urban Flood Simulation Coupled with Nearly Calibration Free Tank Model in Dense Building Area
Mohammad Farid (Tohoku University)

14:30 – 15:40

B3 Hydrology (1), Chair: Sunmin Kim (Kyoto University)

- B3-1 Changes of Water Resources of Jiangsu Province Indicated by MRI-AGCM3.2S Projection
Zhou Huaqiang (ICHARM)
- B3-2 Assessment of Future Changes in Precipitation and Discharge in Motagua River Basin Using High Resolution Climate Model
Rodrigo Fernandez (National Graduate Institute for Policy Studies (GRIPS))
- B3-3 Climate Change and Impacts on the Streamflow in Be River Catchment, Vietnam
Khoi Nguyen Dao (University of Yamanashi)
- B3-4 Assessment of Runoff and Sediment Yield in Be River Catchment, Vietnam Using SWAT Model
Khoi Nguyen Dao (University of Yamanashi)

15:50 – 17:00

B4 Hydrology (2), Chair: Daisuke Nohara (Kyoto University)

- B4-1 Ensemble Rainfall Short-Term Prediction for Flood Disaster Prevention in Urban River Basin
Ratih Indri Hapsari (University of Yamanashi)
- B4-2 Proposal of Scalable Modeling of Inundation Process with Moving Boundaries Considering River Floods
Mukta Sapkota (Kyoto University)
- B4-3 Possible Massive Scale Landslide Occurrence and the Resulting Massive-Scale Debris Flow Occurrence - on the Example of Grohovo Landslide (Rjecina River Catchment, Croatia)
Ostrij Maja (Kyoto University)
- B4-4 The Effect of Air Injection on Sediment Transport Efficiency in Ejector Pump Dredger System
Mohammad Meshkati-shahmirzadi (Kyoto University)
- B4-5 Indo-Pacific Climate Impacts on the River Discharges of the Citarum Basin, Indonesia
Netrananda Sahu (Kyoto University)

Room 3 (Seminar Room 4 & 5, Uji Obaku Plaza)

9:40 – 10:50

C1 Soil Mechanics (1), Chair: Netra Prakash Bhandary (Ehime University)

- C1-1 Laboratory Tests for Evaluating Poisson's Ratio of Sands Statically and Dynamically
Laxmi Prasad Suwal (The University of Tokyo)
- C1-2 Shear Band Behavior of Sand in Torsional Shear Tests by Means of Image Analysis
Seto Wahyudi (The University of Tokyo)
- C1-3 Long-term Behavior of the Reclaimed Pleistocene Deposits Considering the Effect of the Adjacent Offshore Airport Fill
Byung-Gon Jeon (Kyoto University)
- C1-4 Effect of Strain Amplitude on Stress-Dilatancy Behavior of Dense Sand in Drained Cyclic Torsional Shear Loading
Ho Van Thang (The University of Tokyo)

11:00 – 12:10

C2 Soil Mechanics (2), Chair: Mamoru Mimura (Kyoto University)

- C2-1 Residual-State Creep Test in Modified Torsional Ring Shear Machine: A Method towards Landslide Prediction
Deepak Raj Bhat (Ehime University)
- C2-2 Numerical Simulation of Natural Slopes Based on Progressive Failure in Soil-Root Matrix Continuum
Tiwari Ram Chandra (Ehime University)
- C2-3 Numerical Study on the Behavior of Granular Materials under Extremely Low Confining Pressures in Plane Strain Compression
Md. Abu Sayeed (Rajshahi University of Engineering and Technology)
- C2-4 Numerical Simulation on the Use of Cement-Treated Granulate Soil as Foundation Soil and Embankment Fill
Phan Huy Dong (Yokohama National University)

14:30 – 15:40

C3 Rock Engineering and Foundation Engineering, Chair: Shoichiro Hamamoto (Saitama University)

- C3-1 Effect of Microbubble Existence on Permeability of Berea Sandstone
Rangga Adiprima Sudisman (Saitama University)
- C3-2 Negative Ageing Mechanisms of Sedimentary Soft Rock during Freeze-Thaw Weathering
Mohsin Usman Qureshi (The University of Tokyo)
- C3-3 Confined and Surcharge Stress Level Effects on Bearing Capacity of Pile in Sandy Soil
Yang Wu (Hiroshima University)
- C3-4 Fundamental Study on Earth Reinforcing Effect Using Small Diameter Model Steel Pile
Donovan Mujah (Kyushu University)

15:50 – 17:00

C4 Environmental Geotechnics, Chair: Toru Inui (Kyoto University)

- C4-1 Formation and Evaluation of Loosened Ground above a Cavity by Laboratory Model Tests with Uniform Sand
Indiketiya Hewage Samanthi Renuka (The University of Tokyo)
- C4-2 Effect of Single-Species Salt Solutions on Swelling Characteristics and Hydraulic Performance of Bentonite
Hafiz Muhammad Awais Rashid (Saitama University)
- C4-3 Effect of Water Content on the Water Repellency of Model Sands Mixed with Oleic Acid
Takuya Kuroda (Saitama University)
- C4-4 Effect of Water Retention Hysteresis on Gas Transport Parameters in Soils
Kumi Sasanuma (Saitama University)
- C4-5 Geostatistical Approach for Zoning Spatial Variation of Liquefaction Potential in Sedimentary Deposits
Rama Mohan Pokhrel (Saitama University)

Room 4 (S-519D, South Wing)

9:40 – 10:50

D1 Transportation, Chair: Muneta Yokomatsu (Kyoto University)

- D1-1 Transport System and Safety: Implications for the Developing Countries
Esmael Mohamed Omer (Institute for Transport Policy Studies)

- D1-2 Road Users Perception to Radio Traffic Information Service in Lahore, Pakistan
Muhammad Ashraf Javid (Yokohama National University)
- D1-3 Prospect of Railway System Development to Support Coal Transportation in Sumatra Island - Indonesia
Mohamad Syahminan (Kyushu University)
- D1-4 Study on Departure Time Choice Model for Shopping Travel in Consideration of Praying Time as Flexible Temporal Constraint
Muhammad Isran Ramli (Kyushu University)
- D1-5 Consideration of Praying Time Constraint on Simultaneous Choice Model of Departure Time and Travel Mode for Shopping Travel
Muhammad Isran Ramli (Kyushu University)

11:00 – 12:10

D2 Planning and Design, Chair: Michinori Hatayama (Kyoto University)

- D2-1 Seismic Microzonation of Kathmandu Valley: A Tool for Infrastructure Planning In Urban Areas
Youb Raj Paudyal (Ehime University)
- D2-2 Walkability for Tourists: Classification of Streetscapes and Identification of Influential Walking Needs
Ganga Nirosha Samarasekara (University of Ruhuna)
- D2-3 Relationship between Traffic Flow Conditions and Crash Rates in Urban Expressway Basic Segments
Yong Wu (Nagoya University)
- D2-4 Concept of Spatial Intelligent Personal Software Assistant for Task Allocation in Search and Rescue Operations
Reza Nourjou (Kyoto University)

14:30 – 15:40

B5 Environmental Hydraulics, Chair: Makoto Takeda (Chubu University)

- B5-1 Assessment of the Water Quality of Hori River and Relation to the Deposited Sludge
Ugendra Regmi (Chubu University)
- B5-2 Numerical Experiments of Thermal Convection near Lake's Shores during Cooling Period: Case Study of Lake Biwa
Malembeka Frederick Paul (Kyoto University)
- B5-3 Analytical Estimation of Longitudinal Dispersion Coefficient in the Red River Estuary, Vietnam
Nguyen Hoang Duc (Tokyo Metropolitan University)
- B5-4 Fundamental Analysis of Groundwater Flow and Quality in Kyoto Basin
Batuer Abudoureyimu (Kyoto University)

15:50 – 17:00

C5 F1 Geotechnical Engineering and Construction Technology, Chair: Yosuke Yamashiki (Kyoto University)

- C5-1 Identification of the Most Influencing Parametric Class/Factor in One of the Most Landslide-Prone Geology in Mid Nepal Himalaya Employing GIS
Acharya Kiran Prasad (Ehime University)
- C5-2 Experimental Study of Debris Particle Routing Segregation with Constant Discharge
Mohd Remy Rozainy Mohd Arif Zainol (Kyoto University)
- C5-3 Slaking Effect on Shear Strength and Creep Deformation of Mudstone
Keshab Sharma (The University of Tokyo)

- F1-1 Application of Triage System (Tracy) to the Drill of the Yamanashi University Hospital
Muneyoshi Numada (The University of Tokyo)
- F1-2 STG Presentation
Anjenine Mae S. Guanlao (University of Philippines, Diliman)

Room 5 (S-207D, South Wing)

9:40 – 10:50

G1 Environmental System, Chair: Gakuji Kurata (Kyoto University)

- G1-1 Study on the Correlation between Material Stocks of Roadways and Industrial Structure Change in Japan
Cherry Myo Lwin (Nagoya University)
- G1-2 Multi-Scale Integrated Analysis of China's Societal Metabolism: A Case Study of Guangdong Province
Jiaying Xu (Nagoya University)
- G1-3 The Study on Optimization of Proper Size of Sound Material Cycle Area -Material Stock Intensity per Person with Virtual Urban Area Model-
Kejiro Okuoka (Nagoya University)
- G1-4 The Evolution of Passenger Transport CO₂ Emissions and Driving Forces Analysis in Beijing
Yunjing Wang (Nagoya University)

11:00 – 12:10

G2 Environment, Chair: Shinya Echigo (Kyoto University)

- G2-1 Evaluation of Carbon Footprint in China: A Regional Analysis under Consumption-Based Carbon Emission Measurement
Xin Tian (Nagoya University)
- G2-2 Study on Quantification of Relationship between Land Use and GDP Based on Global Scale Spatial Information
Wanxin Hou (Nagoya University)

14:30 – 16:00

E1 Concrete Engineering, Chair: Takashi Yamamoto (Kyoto University)

- E1-1 Effect of Chloride Binding in Mortars Mixed with Ion-Exchange Resin as Admixture to Diminish Free Chlorides in RC Structures
Madurap Perumage Chamila Madusanka Gunasekara (Saitama University)
- E1-2 Finite Element Analysis of Prestressed Concrete Beam Deteriorated by Chloride Attack
Charn Prasopsap (Thammasato University)
- E1-3 Analysis of Quality of Covercrete Subjected to Different Curing Conditions Using New Surface Water Absorption Test
Usman Akmal (Yokohama National University)
- E1-4 Effect of Fiber Type on Autogenous Healing under Flexural Loading
Choonghyun Kang (Nagoya University)
- E1-5 Effect of Coarse-Aggregate's Strength on Fracture Surface Roughness of High-Strength Concrete
S.V.T. Janaka Perera (Saitama University)
- E1-6 Confinement Effect of Fiber Reinforced Polymer Wraps in Circular and Square Concrete Columns
Md. Abdulla (Bangladesh University of Engineering and Technology)

M A P

