

**Program of the Ninth International  
Summer Symposium**

September 18, 2007

Yokohama National University, Japan

International Activities Committee  
Japan Society of Civil Engineers

## SCHEDULE

### The 9th International Summer Symposium

Session	Room I (301)	Room II (306)	Room III (310)	Room IV (315)	Room V (305)
<b>Session 1 (10:00-12:00)</b>	Category A (8)	Category B (6)	Category E (5)	Category D+F (5+2)	Category C(6)
<b>Lunch Break (12:00-13:00)</b>					
<b>Session 2 (13:00-14:00)</b>					Keynote Lecture
<b>Coffee Break (14:00-14:20)</b>					
<b>Session 3 (14:20-16:00)</b>	Category A (6)	Category B (6)	Category E (5)	Category G (5)	Category C(6)
<b>Coffee Break (16:00-16:20)</b>					
<b>Session 4 (16:20-17:50)</b>	Category A (6)	Category B (4)		Category G (6)	Category C(6)
<b>Party at Landmark Dock (18:30-20:30)</b>					

**\*NOTES FOR SPEAKERS:**

1. For audio-visual aids, a PC/Video projector is provided for each room.
2. Before your session starts, contact session chairperson for confirmation of your presentation.
3. Each speaker has 11 minutes for the presentation and 4 minutes for discussion in principle.

## SESSIONS

### Keynote Lectures

#### Room V (305) Session 2K

**13:00-13:30 Dr. Yoshimi Goda (Emeritus Professor, Yokohama National University)**

**13:30-14:00 Prof. Osamu Kusakabe (Tokyo Institute of Technology)**

#### Room I (301)

#### **10:00-12:00 Session 1A (Structural Mechanics and Earthquake Engineering)**

**Chaired by Dr. Seiji Nakato (Kanto Gakuin University)**

Effect of Prestressing Tendon and Reinforcement on the Local Stress of Concrete Structures

Lam Huu Quang (Saitama University)

Assessment of Crack Elongation Performance in RC Beams Repaired by UHP-SHCC

Ahmed Kamal (Nagoya University)

Aerodynamic Characteristics and Flow Patterns for Two Circular Cylinders in Staggered Arrangement with Low Angle of Incidence

Haeyoung Kim (Nagoya University)

Computational Analysis of Wind Flow around Bridge Deck Sections

Elena Dragomirescu (Nagoya University)

Evaluation of a Computer Aided Design of Box Culvert

Q. Sifat Bushra (Saga University)

A Numerical Investigation of Noise Generation and Radiation from Bridge Modular Expansion Joint: Dependence on Frequency and Direction

Jhabindra P. Ghimire (Saitama University)

Signal Analysis of Measured Vibration Data for Fault Detection in Flexible Risers

Carlos Alberto Riveros Jerez (Kyoto University)

Life Cycle Cost Evaluation in the Maintenance Control Plan of Highway Bridge in Consideration of Network

Yasuko Yokoyama (Musashi Institute of Technology)

#### Room I (301)

#### **14:20-16:00 Session 3A (Structural Mechanics and Earthquake Engineering)**

**Chaired by Dr. Elena Dragomirescu (Nagoya University)**

Impact of Tsunami Water-Borne Massive Objects on Buildings

Kavinda Manoj Madurapperuma (Tokyo Institute of Technology)

A Rheology Model of Rubber Bearing for Seismic Analysis of Bridges

M. Abdur Rhaman Bhuiyan (Saitama University)

Performance of Long-Period Structures in Bam

Mohammad Reza Ghayamghamian (Kyoto University)

Mid Column Seismic Pounding of Multi-Story RC Buildings in a Row Considering Underlying Soil

Kabir Shakya (Tokyo Institute of Technology)

Influence of Soil-Structure Interaction on Seismic Response of Bridges

Rabin Tuladhar (Saitama University)

Development of New Base-Isolation System for Low-Rise Buildings

Bahbouh Lama (Yokohama National University)

### **Room I (301)**

**16:20-17:50 Session 4A (Structural Mechanics and Earthquake Engineering)**

**Chaired by Dr. Theeraphong Chanpheng (Yokohama National University)**

Numerical Studies on Mechanical Behavior of Heat-Corrected Steel Structures and Much Further Repairing Method

Pang-jo Chun (Wayne State University)

Fatigue Test of the Lifting Lug and Stud Shear Connector for Plate Bending

Biehn Baik (Nagoya University)

Evaluation of Ductile Crack Initiation for Steel Bridge Piers

Wataru Fujie (Nagoya University)

Crack Propagation Simulation using a Coupled Method of FE-SBFEM

Santosh Shrestha (Ehime University)

Behaviour of Baked Clay Structural Beam Panels

Abdul aziz Ansari (Quaid-e-Awam University of Engineering Science & Technology)

Lateral Resistance of Confined Solid Clay Brick Wall under Cyclic Lateral Loading

Bourzam Abdelkrim (Kanazawa University)

### **Room II (306)**

**10:00-12:00 Session 1B (Hydraulic, Coastal and Environmental Engineering)**

**Chaired by Dr. Naoki Shirakawa (University of Tsukuba)**

Velocity Distribution under Low Relative Depth in a Doubly Meandering Compound Channel

G.M. Tarekul Islam (Hiroshima University)

Attenuation of Flood Flow in a Doubly Meandering Compound Channel

G.M. Tarekul Islam (Hiroshima University)

Predicting Monthly Flows by ANN Models for Three Rivers of Pakistan

Sohail Ahmed Rai (Saitama University)

Experimental Investigation of Fluoride Leaching by Water from Granite Rock of Tono Area, Japan

Abdel rahman Mohamed ABDEL GAWAD (Saitama University)

Daily Groundwater Level Prediction using Artificial Neural Network and Genetic Algorithm

Azhar K Affandi (Saitama University)

Numerical Simulation of Wind Flow around Single and Double Arranged Windbreaks

Mulati Yusaiyin (Saitama University)

### **Room II (306)**

**14:20-16:00 Session 3B (Hydraulic, Coastal and Environmental Engineering)**

**Chaired by Dr. Yoshimitsu Tajima (University of Tokyo)**

Comparing Different Estimation Methods of Bottom Shear Stress for Waves Characterized by Horizontal and

Vertical Axes Asymmetry

Suntoyo (Institut Teknologi Sepuluh Nopember (ITS))

Capability of Coastal Vegetation Species Dominant in Asian Region to Retardate the Tsunami Impact

Napayalage Aruna Kithsiri Nandasena (Saitama University)

Discussion on the Application of Bed Definitions and Initial Conditions in a Bay-Scale Sediment Accumulation Model

Thamnoon Rasmeeasmuang (Yokohama National University)

Evaluation of Impact Pressure Exerted by a Breaking Solitary Wave on a Vertical Wall

Nguyen Danh Thao (Yokohama National University)

Laboratory Experiments to Determine the Pressure Distribution Exerted by a Caisson Breakwater onto the Foundation due to Impact Waves

Miguel Esteban (Yokohama National University)

Application of Hindcasting method for Wave Prediction and Its Probability of Occurrence in Indonesian Java Seas

Hendra Achiari (Yokohama National University)

## **Room II (306)**

**16:20-17:50 Session 4B (Hydraulic, Coastal and Environmental Engineering)**

**Chaired by Mr. Hiroshi Takagi (Yokohama National University)**

A Collision Simulation of a Drifted Container by Run-Up Tsunami

Gyeong-Seon Yeom (Nagoya University)

Topographic Change around Yuriage Port

Sompratana Ritphring (Tohoku University)

A Sediment Transport Study of Rhythmical Longshore Pattern

Yessi Nirwana Kurniadi (Tohoku University)

Numerical Analysis of Flow and Density Structures in Ise Bay at the Time of the Heavy Rain in September, 2000

Jinhoon Kim (Nagoya University)

## **Room III (310)**

**10:00-12:00 Session 1E (Materials, Concrete Structures and Pavements)**

**Chaired by Dr. Tomohiro Miki (Tokyo Institute of Technology)**

Composite Behavior of Hybrid FRP Girder and Concrete Deck

Manalo Allan Capilar (Saitama University)

Flexural Behavior of Hybrid FRP Composite Beams

Nguyen Duc Hai (Saitama University)

Interaction Analysis of RC Frame and Unreinforced Masonry Wall

Carlos Antezana O. (Yokohama National University)

Numerical Simulation for Reinforced Structures made of Brittle Granular Materials.

Dago Zangmo (Yokohama National University)

Effect of Grouting Condition on Crack and Load-Carrying Capacity of Post-Tensioned Concrete Beams due to Corrosion

Ha Minh (Saitama University)

**Room III (310)**

**14:20-16:00 Session 3E (Materials, Concrete Structures and Pavements)**

**Chaired by Dr. Singo Asamoto (Saitama University)**

Influence of Different Marine Exposure Conditions and Temperature on the Corrosion of Paint-Coated Steel Plates with Defect

Marish S. Madlangbayan (Tokyo Institute of Technology)

Combined Optimization-Simulation Methodology for Pavement Maintenance: A Case Study of Bangladesh

Mohammad Mamunur Rashid (Saitama University)

Effect of Curing Condition on Strength and Chloride Ion Diffusion at Surface and Interior of Mortar with Mae Moh Fly Ash

Pitiwat Wattanachai (Tokyo Institute of Technology)

Proposed Concrete Strength Compliance Criteria for the Egyptian Code of Concrete Based on the Average outgoing Quality Limit (AOQL) Concept

Osama A. Hodhod (Cairo University and Tokyo University)

Analysis of Shear Crack Width in High Strength I-shaped Prestressed Reinforced Concrete Beams

Sudhira De Silva (Saitama University)

**Room IV (315)**

**10:00-12:00 Session 1D&F (Infrastructure Planning and Management**

**& Construction Management and Engineering)**

**Chaired by Dr. Ryusuke Takeuchi (Tokyo Metropolitan University)**

Performance of Horizontal U-Tube (HUT) Road Heating System and Operation Improvement

Md. Saiful Islam (University of Fukui)

Assessing the Level of Service (LOS) of Some Selected Railway Stations in Dhaka City of Bangladesh

Md. Kamrul Islam (Dhaka University of Engineering and Technology)

Pedestrian Level of Service (LOS) for Crosswalks at Some Selected Intersections in Dhaka City of Bangladesh

Md. Kamrul Islam (Dhaka University of Engineering and Technology)

A Study on using Railway as the Short Distance Transportation within the Suburbs during Daytime in Tokyo Metropolitan Area

Masaru Bushimata (Yokohama National University)

Identification Land Use and Land Use Change to Environmental Planning using Satellite Image: Study Case West Java Indonesia

Soni Darmawan (Japan International Research Centre for Agricultural Sciences (JIRCAS))

Claim/Dispute Management Provisions in Japanese Public Construction Works and ODA Construction Projects

Rajendra Niraula (Kochi University of Technology)

Pavement Rehabilitation Management: Performance Modeling and Rehabilitation Programming

Matiko Samson (Yokohama National University)

**Room IV (315)**

**14:20-16:00 Session 3G (Environmental Systems and Engineering)**

**Chaired by Dr. Norio Tanaka (Saitama University)**

Effect of Water Level Fluctuations on Nitrogen Removal and Plant Growth in a Vertical Subsurface Flow Wetland Mesocosms

Sasikala Shanmugasuntharam(Saitama University)

Effect of Water Level Fluctuation on Radial Oxygen Loss (ROL) of Typha Orientalis in a Vertical Flow Wetland Mesocosms

Wah Wah Han Su Yin (Saitama University)

Ammonium Adsorption Characteristics of Sand Bed Constructed Wetland Mesocosms

Tran Huyen Trang (Saitama University)

Establishment of Sustainable Coastal Vegetation – Experiences from Sri Lanka

Dr. K.B.S.N. Jinadasa (Saitama University)

Assessing the Pollution State of Beire Lake; A Case Study

Shiromi Karunaratne (University of Moratuwa, Sri Lanka)

### **Room IV (315)**

**16:20-17:50 Session 4G (Environmental Systems and Engineering)**

**Chaired by Dr. Takeshi Fujino (Saitama University)**

Identification Land Use and Land Use Change to Environmental Planning using Satellite Image: Study Case West Java-Indonesia

Soni Darmawan (Japan International Research Centre for Agricultural Sciences (JIRCAS))

Assessment of the Improvement of the Tidal Mud in the Ariake Sea, Japan

Daisuke Suetsugu (Saga University)

Mobilization of Arsenic in a Contaminated Aquifer; South-Western Bangladesh

Md. Tauhid-Ur-Rahman (Tohoku University)

Nitrogen Variation in UV-B Exposed Freshwater Ecosystem due to Photooxidation

Kasige Anushapriyanthi (Saitama University)

Effect of flow regulation on organic matter transport and macroinvertebrate community

Hnin Wityi (Saitama University)

Innovative Solution to Sand Scarcity for the Construction Industry and Sediment Removal of Inland Tasks in Sri Lanka

Ekanayake Konara Mudiyansele (University of Peradeniya, Sri Lanka)

### **Room V (305)**

**10:00-12:00 Session 1C (Geotechnical Engineering)**

**Chaired by Prof. Kazuo Tani (Yokohama National University)**

Shear Stress - Strain Response Analysis of Backfill Soil of Model Retaining Wall Using Shaking Table

Sarju Mulmi (University of Tokyo)

Cyclic Behaviour of Partially Saturated Masado and its Application on the Estimation of Seismic-Induced Deformation of Embankments

Junya Ohashi (Yamaguchi University)

Strength Properties of Undisturbed Samples Retrieved from Failed Slope due to Earthquake

Jianliang Deng (University of Tokyo)

Mechanical Properties of Loam Soil taken from Old Highway Embankment

M. M. Younus Ali (Saitama University)

Use of Electronic Balance in Measurement of Small Volumetric Strain of Hollow Cylinder Sand Specimens

Laddu Indika nalin De Silva (University of Tokyo)

Small Strain Stiffness of Clean Sand and Gravel Based on Dynamic and Static Measurements

Ruta Ireng Wicaksono (University of Tokyo)

### **Room V (305)**

**14:20-16:00 Session 3C (Geotechnical Engineering)**

**Chaired by Prof. Junichi Koseki (University of Tokyo)**

Engineering Geotechnical Assessment of Wadi Dayqah Dams and Reservoir Area

Mohsin Usman Qureshi (University of Tokyo)

Numerical Analysis for Creep Behavior of Mudstone under Elevated Temperature

Syed Zishan Ashiq (Yokohama National University)

Effects of Spatial Variability in Prediction of Settlement of a Shallow Foundation

Jlilati Mohamad Nazieh (Gifu University)

Model Tests on the Compressive and Tensile Shaft Capacity of Nodular Piles in Sand

Olivhal Paghangaan -Borda (University of Tokyo)

Negative Pore air Pressure induced in Air-dried Dense Backfill Sand of Retaining Wall Models during 1g Shaking Table Test

Kimhor Hong (University of Tokyo)

Wet Compaction and Lime Stabilization to Change Volume Change Potential of Swelling Clayey Soils

Gilbert J. Kasangaki(University of Tokyo)

### **Room V (305)**

**16:20-17:50 Session 4C (Geotechnical Engineering)**

**Chaired by Dr. Yoshiaki Kikuchi (Port and Airport Research Institute)**

Transport and Retention of Colloid-Sized Materials in Saturated Porous Media

Deepagoda Thuduwe Kankanamge Kelum Chamindu (Saitama University)

Effect of Soil Compaction on Solute Diffusion Coefficient in Repacked Volcanic Ash Soil

Perera Mandadige Samintha Anne (Saitama University)

Scale Dependency of Gas Diffusivity and Air Permeability in Sand

Shoichiro Hamamoto (Saitama University)

Characteristics of Gas Transport Parameters in a Peat Soil

Kenji Iiduka (Saitama University)

Effects of Antecedent Rainfall on Hydrological Response and Failure Mechanism of Unsaturated Slope Models subjected to Artificial Rainfall

Juan Montoya (University of Tokyo)

Thermal Properties of Mud of the Ariake Sea, Japan

M.Azizul Moqsud (Saga University)