

General Presentation

November 18 (Thu.)

Theme4 Subsurface Structure and Earthquake Ground Motion 13:00-15:00 Convention Hall 200

- GO1-Thu-PM-1** Simulation Analyses of Ground Motions Considering Inhomogeneity of Soil Properties
Kazuhiro Yoshida (Ohsaki Research Institute) • Takahide Watanabe • Kenji Hirahara • Keiji Yokono
- GO1-Thu-PM-2** Estimation of Inhomogeneous Parameters in Seismic Wave Paths for Evaluation of Earthquake Ground Motion Fluctuation
Yoshiyuki Sato (Takenaka Corporation) • Saburoh Midorikawa
- GO1-Thu-PM-3** Variation of One Dimensional Seismic Response Using Super-Dense Soil Exploration
Ikki Tamura (Ehime University) • Shinichiro Mori
- GO1-Thu-PM-4** Evaluation Method of Site Amplification Considering Predominant Periods of Subsurface Soil Deposit and Bedrock Motion
Yuta Nogami (JR East Consultants Company) • Kimitoshi Sakai • Yoshitaka Murono
- GO1-Thu-PM-5** Estimation of Empirical Site Amplification Factors Using the Borehole KiK-net Site Records
Takashi Akazawa (Geo-Research Institute) • Kojiro Irikura • Koji Hada
- GO1-Thu-PM-6** A Simple Methodology to Predict Earthquake Motions on Engineering Bedrock Using Attenuation Relations
Satoshi Kiryu (JR East Japan Consultants Company) • Kimitoshi Sakai • Yoshitaka Murono
- GO1-Thu-PM-7** Simplified Formula for Site Amplification Based on Vertical Array Records and Soil Nonlinearity Effect
Takaji Kokusho (Chuo University) • Kenta Ejiri • Ippei Yoshimura
- GO1-Thu-PM-8** Relationship between Statistical Site Amplification Characteristics From Strong Motion Records and Site Categories Evaluated from GIS Information
Hiroshi Kawase (Kyoto University) • Shinichi Matsushima
- GO1-Thu-PM-9** Study on the Non-Linear Response of Near-Surface Layer Based on the Green's Functions Estimated from Weak Motions
Yukari Tanaka (Yokohama City University) • Shigeo Kinoshita
- GO1-Thu-PM-10** Estimation of Spatial Distribution of Response Spectra Considering Soil Amplification and Spatial Correlation of Ground Motions
Susumu Ohno (Disaster Control Research Center, Tohoku University) • Akihiro Shibayama

Theme4 Subsurface Structure and Earthquake Ground Motion 15:10-17:30 Convention Hall 200

- GO2-Thu-PM-1** Horizontal Array Earthquake Observation at Tsuruga Peninsula
Arihide Nobata (Obayashi Corporation) • Masayuki Oba • Koshiro En • Haruhiko Suzuki
- GO2-Thu-PM-2** Vibration Characteristics of Highway Embankment Restored and Damaged by the 2007 Noto-Hanto Earthquake
Kunihiko Kohno (Ehime Kensetsu Consultants) • Shinichiro Mori • Yoshitaka Saeki
- GO2-Thu-PM-3** Strong Ground Motion Characteristics of Off West Hokkaido Earthquakes
-Study on Peak Ground Acceleration Attenuation Characteristics-
Nobuo Takai (Hokkaido University) • Takahiro Maeda • Tsutomu Sasatani
- GO2-Thu-PM-4** A Study on Strong Motions in the Onikobe Area during the 2008 Iwate Miyagi Nairiku Earthquake
-Effect of Irregular Subsurface Structure in the Onikobe Area from Aftershock Records and Microtremors-
Kentarō Motoki (Kobori Research Complex Inc.) • Hiroaki Yamanaka • Kazuo Seo • Haruhiko Suzuki
- GO2-Thu-PM-5** Verification of Two Successive NIED Deep Velocity Structure Models of the Tokachi Basin by Comparing the Synthetic Long-Period Ground Motions with the Observed Ones
Yadab Dhakal (Hokkaido University) • Tsutomu Sasatani • Nobuo Takai

- GO2-Thu-PM-6 On the Dynamic Characteristics of the Great Buddha of Kamakura and Its Surroundings
Yutaka Nakamura (System and Data Research) • Jun Saita • Mitsuhiro Tachibana • Masayuki Morii • Shusaku Inoue • Tatsuo Ohmachi
- GO2-Thu-PM-7 Three Components Microtremor Measurements and Microtremor Array Measurements at Mexico City
Koichi Hayashi (Oyo Corporation) • Atsushi Nozu • Masanori Tanaka • Haruhiko Suzuki
- GO2-Thu-PM-8 Estimation of Site Amplification in Metro Manila, Philippines From Microtremor Array Observations
Rhommel Grutas (Tokyo Institute of Technology) • Hiroaki Yamanaka
- GO2-Thu-PM-9 The Ground Structure in Middle Reaches Region in Watarase River and Presumption Seismic Ground Motion of Ashikaga City
Fujio Matsueda (Kyoryo Consultants) • Tokiharu Ohta • Hiroaki Yamanaka • Tadanori Shindo
- GO2-Thu-PM-10 Dynamic Properties of Power Station Grounds Based on Earthquake Observations.
Yasuo Ookouchi (Chubu Electric Power Co., Inc.) • Hideaki Mizuno • Keiji Yamamoto • Nobuo Fukuwa • Masafumi Mori
- GO2-Thu-PM-11 The Influence of Fill Depth and Old Topographical Shape Upon the Seismic Response in the Development
Tomohiro Mori (Tohoku University) • Katsuya Matsushita • Shingo Sato • Ryosuke Uzuoka • Motoki Kazama

Theme3 Earthquake Source Modeling and Source Effects

13:00-15:00

Conference Room 201

- GO3-Thu-PM-1 Source Characteristics of the 2007 Great Outer-Rise Earthquake in the Central Kuril Islands
Wataru Kawabata (Electric Power Development Co.,Ltd.) • Tsutomu Sasatani • Nobuo Takai • Takahiro Maeda
- GO3-Thu-PM-2 Strong Ground Motions from the 2005 Sanriku-Okai Outer-Rise Earthquake(Mw7.0)
Yuka Okazaki (Hokkaido University) • Tsutomu Sasatani • Nobuo Takai
- GO3-Thu-PM-3 High-Frequency Wave Generation of Intra-Slab Earthquakes at the Suruga Bay in 2009
Takashi Ikeda (Kobori Research Complex)
- GO3-Thu-PM-4 Seismic Intensity Inversion Analysis of Recent Inland Crustal Earthquakes
Katsuhisa Kanda (Kobori Research Complex Inc.) • Masayuki Takemura
- GO3-Thu-PM-5 Comparisons of Source Characteristics of Events in the High Strain Rate Zone and Others
Kazuhiro Somei (Geo-Research Institute) • Kimiyuki Asano • Tomotaka Iwata
- GO3-Thu-PM-6 Examination on Macroscopic Fault Parameters for Large Inland Earthquakes Caused by Strike-Slip Faults
Yayoi Ishii (Shimizu Corporation) • Kazuo Dan • Samaneh Arzpeima
- GO3-Thu-PM-7 Evaluation of Proportionality Constant between Stress Drop and Seismic Moment in Strike-Slip Inland Earthquakes by Dynamic Rupturing Simulation
Kiyoshi Irie (Ohsaki Research Institute) • Kazuo Dan • Shinya Ikutama • Kojiro Irikura
- GO3-Thu-PM-8 Examination on the Source Model Characterizing Complexity of Fault Rupture Process and Their Effects on Strong Ground Motions
Motofumi Watanabe (Shimizu Corporation) • Hiroyuki Fujiwara • Toru Ishii • Toshiaki Sato • Toshihiko Okumura
- GO3-Thu-PM-9 Strong Motion Simulation in the Source Region of the Niigata-Ken Chuetsu-Okai Earthquake in 2007
Yuhei Nitta (Kyoto University) • Shinichi Matsushima • Hiroshi Kawase
- GO3-Thu-PM-10 Surface Waves in an Inhomogeneous Transversely Isotropic Half-Space Using Elastodynamic Reciprocity
Priza Kayestha (Tokyo Institute of Technology) • Takatsugu Konno • Anil Wijeyewickrema

Theme5 Strong Ground Motion Prediction and Input Seismic Ground Motion

15:10-17:40

Conference Room 201

- GO4-Thu-PM-1 Benchmark Test for Strong Ground Motion Prediction Methods - Part 1: Abstract -
Yoshiaki Hisada (Kogakuin University) • Masayuki Nagano • Kenichi Kato • Chiaki Yoshimura • Hidenori Kawabe • Katsuhiko Kamae • Shin Aoi • Takashi Hayakawa • Hirotohi Uebayashi • Yuuki Sakai
- GO4-Thu-PM-2 Benchmark Tests for Strong Motion Prediction Methods -Part 2: Theoretical Methods-
Toshiaki Matsumoto (Kogakuin University) • Yoshiaki Hisada • Masayuki Nagano • Atsushi Nozu • Ken Miyakoshi

- GO4-Thu-PM-3** Benchmark Tests for Strong Ground Motion Prediction Methods Part 3: Numerical Methods
Chiaki Yoshimura (Taisei Corporation) • Masayuki Nagano • Yoshiaki Hisada • Shin Aoi • Takashi Hayakawa • Seckin Ozgur Citak • Shinichi Matsushima • Yoshihiro Onishi
- GO4-Thu-PM-4** Benchmark Tests for Strong Ground Motion Prediction Methods
Part 4: Stochastic Green's Function Method
Kenichi Kato (Kobori Research Complex) • Yoshiaki Hisada • Hidenori Kawabe • Susumu Ohno • Atsushi Nozu • Arihide Nobata • Atsushi Morikawa • Yu Yamamoto
- GO4-Thu-PM-5** Improvement of Attenuation Relationships of the Horizontal and Vertical PGA that Uses Kyoshin Network Data.
Toshimitsu Nishimura (Geo-Research Institute) • Masanori Horike
- GO4-Thu-PM-6** Attenuation Characteristics of Strong Ground Motion Spectra without Relative Site Amplification Effect
Tomonori Ikeura (Tajima Technical Research Institute)
- GO4-Thu-PM-7** Investigation of Distance Measuring to Express Strong Ground Motions in Near Source Region - Comparison between Equivalent Hypocentral Distance and Shortest Distance to Fault Plane for the Case of Reverse Fault -
Atsushi Morikawa (Kobori Research Complex) • Kenichi Kato • Tomonori Ikeura • Masayuki Takemura • Katsuichirou Hijikata
- GO4-Thu-PM-8** Attenuation Relationship for Response Spectra Considering the Effect of Directivity and Radiation Pattern of the Source
Shusuke Oji (Chuo Kaihatsu Corporation) • Sumio Sawada
- GO4-Thu-PM-9** Spectral Inversion Analysis Considering Apparent Incident Angle
Fumio Amaike (Research and Development Institute, Takenaka Corporation) • Kikuji Kobayashi
- GO4-Thu-PM-10** A Method of Spectrum Inversion Analysis Divides Attenuation Function into Multiple Ranges of Distances
Yusuke Tomozawa (Kajima Technical Research Institute) • Tomonori Ikeura
- GO4-Thu-PM-11** A New Method of Estimating the Path-Averaged Q_s -Value at Low-Frequencies
Michiko Shigefuji (Hokkaido University) • Tsutomu Sasatani • Nobuo Takai
- GO4-Thu-PM-12** Effect of Small Scale Q_s Inhomogeneity on Seismic Ground Motions
Ryoichi Nakamura (Tokyo Electric Power Services Co. Ltd.) • Tomiichi Uetake • Saburoh Midorikawa

Theme18 Seismic Isolation and Structural Control

13:00-15:00

Conference Room 202A

- GO11-Thu-PM-1** Development and Construction of Three Dimensional Seismic Isolation Building
Hiromasa Aida (Kozo Keikaku Engineering) • Osamu Takahashi • Tetsuya Tomizawa • Junji Suhara • Itaru Kurosawa • Yasuo Tsuyuki • Takafumi Fujita
- GO11-Thu-PM-2** Development of Base-Isolation Device of Sliding Support with Oil Dampers.
Part1:Outline of Isolation Device and Test Result of Forced Vibration Tests.
Yasuo Tsuyuki (Kayaba System Machinery) • Morimasa Watakabe • Shinsuke Inai • Tooru Hanawa • Shinichi Iizuka • Motoki Misu
- GO11-Thu-PM-3** Development of Base-Isolation Device of Sliding Support with Oil Dampers.
Part2:Numerical Investigation of the Response Performance of a Newly Developed Isolation System to Building in Use.
Shinsuke Inai (Toda Corporation) • Morimasa Watakabe • Takeshi Yamamoto • Tooru Hanawa • Kazuo Yachiune • Shinichi Iizuka
- GO11-Thu-PM-4** Estimate of Horizontal Stiffness of Rubber Bearing Concerned with Rotation and P-Delta Effect
Suguru Shimoda (Meiji University) • Masahito Kobayashi
- GO11-Thu-PM-5** Mechanical Characteristics of Rubber Bearings with Various Thickness of Steel Shims
Keiko Morita (Fukuoka Univ.) • Mineo Takayama • Masayuki Yanagi • Miyuki Kaihotsu
- GO11-Thu-PM-6** A New Analytical Model for Elastomeric Seismic Isolation Bearings under Multiaxial Loading
Ken Ishii (Hokkaido University) • Masaru Kikuchi • Hideaki Kato
- GO11-Thu-PM-7** Experiments on Wind Response of Lead Damper
Tatsuo Matsumoto (Fukuoka Univ) • Mineo Takayama • Keiko Morita • Akira Yasunaga
- GO11-Thu-PM-8** Dynamic Behavior of Seismic Base-Isolated Structure during Large Shaking Table Tests
Kenji Kanazawa (CRIEPI) • Seiji Nagata • Shuichi Yabana • Kazuta Hirata • Katsuhiko Umeki • Seiji Kitamura

- GO11-Thu-PM-9** Experiments and Simulation Analysis of Collision to Retaining Wall with Real Scale Base-Isolated Building
Goro Miwada (Obayashi Corporation) • Takeshi Sano • Hideo Katsumata • Yasuhiro Hayashi • Noriko Takiyama • Kotaro Sato • Jumpei Komaki
- GO11-Thu-PM-10** Evaluation and Influence on Response of Base-Isolated Buildings in Collision to Retaining Wall of Resistance Characteristics of Retaining Wall Including the Soil Behind
Kotaro Sato (Kyoto University) • Jumpei Komaki • Goro Miwada • Takeshi Sano • Hideo Katsumata • Noriko Takiyama • Yasuhiro Hayashi

Theme18 Seismic Isolation and Structural Control

**15:10-17:10
Conference Room 202A**

- GO12-Thu-PM-1** Seismic Response of House with Sliding Base
Hirosuke Fujita (Waseda University) • Satsuya Soda • Yoshinori Miyamoto • Emi Miyamoto
- GO12-Thu-PM-2** Seismic Response of Multi-Story Base-Isolated Structures by Multiple Plane Sliding Surfaces
Muhannad Fakhouri (Kyoto University) • Muhannad Fakhouri • Akira Igarashi
- GO12-Thu-PM-3** A Study on Response Characteristics of Base Isolated Building with Displacement Dependent Dampers
Yoko Sagami (Tohoku University) • Masahiro Ikenaga • Kohju Ikago • Norio Inoue
- GO12-Thu-PM-4** Free Vibration Analysis of Base Isolated Buildings with Hysteretic Dampers
Tadashi Ishihara (National Institute for Land and Infrastructure Management) • Kazuo Tamura • Masanori Iiba
- GO12-Thu-PM-5** Amplification of Floor Response of Base-Isolated Buildings Subjected to Vertical Motions
Sachi Furukawa (Kyoto University) • Eiji Sato • Masayoshi Nakashima
- GO12-Thu-PM-6** Fundamental Study on Longer Life of Seismic Isolated Building with Lead Rubber Bearing
Gou Noguchi (Tokyo University of Science) • Yuki Honda • Kazuki Chiba • Satoshi Kurita
- GO12-Thu-PM-7** Fundamental Study on Vertical Distribution of Shear Force Coefficient for Seismic Design of Seismic Isolated Building.
Gou Tanizaki (Meiji Univ) • Masahito Kobayashi
- GO12-Thu-PM-8** Present Situation of Isolation Buildings in Japan Based on Establishing a Database on Technical Evaluation Sheet
Yuji Tanaka (Nagoya University) • Nobuo Fukuwa • Jun Tobita • Masafumi Mori
- GO12-Thu-PM-9** Effect to Seismic Behavior of Isolation Bridge and Non-Isolation Bridge Caused by Temperature Changes
Hirosuige Uno (Oiles Corporation) • Taiji Mazda • Hirokazu Miyamoto • Kouichi Yunoki • Satoshi Chou • Ryuusaku Shinoda
- GO12-Thu-PM-10** Effectiveness of TMD in Reducing Seismic Response of Bridge Girders Supported by Elastomeric Isolation Bearings
Naoya Hasegawa (Kyoto University) • Akira Igarashi

Theme23 Functional Continuity and Resiliency of Facilities, Disaster Preventing Plan and Countermeasure against Earthquake

**13:00-15:00
Conference Room 202B**

- GO19-Thu-PM-1** The Seismic Recovery Curves Estimation for Production Facility Considering Surplus Performance of Production Equipments
Shigeki Sakai (Technical Research Institute, Hazama Corporation) • Takaaki Nakamura • Hiromichi Yoshikawa
- GO19-Thu-PM-2** Damage Evaluation of RC Members by Applying Evaluation Model of Crack Length and Width
Sayaka Igarashi (Technology Center, Taisei Corporation) • Sunsil Kim • Byungmin Cho • Masaki Maeda
- GO19-Thu-PM-3** Estimation of the Damage Level of Buildings by Period Elongation before and after the Earthquake with an Accelerograph on a Building
Masashi Shiomitsu (The University of Tsukuba) • Yuki Sakai
- GO19-Thu-PM-4** Fuzzy-Based Detection of Debris in Aerial Images
Atsuhito Nakano (The University of Tokushima) • Yoshihumi Nariyuki • Takashi Minamoto
- GO19-Thu-PM-5** Seismic Assessment System for Indoor Injury Risk
Shigeyuki Okada (Hokkaido University) • Noriyuki Nachi
- GO19-Thu-PM-6** Disaster Response Management System for Wide Area Coordination Against Earthquakes in Tokyo Metropolitan Area
Takeyasu Suzuki (University of Yamanashi) • Yasunori Hada • Kimiro Meguro

- GO19-Thu-PM-7** Development of Local Capacity Building Program Toward Realizing Common Operational Picture Using GIS for Effective Disaster Response
Munenari Inoguchi (Research Center for Natural Hazard & Disaster Recovery, Niigata University) • Keiko Tamura • Reo Kimura • Haruo Hayashi
- GO19-Thu-PM-8** Information Sharing Demonstration in Tokyo Metropolitan Near Field Earthquake Disaster
Yasunori Hada (University of Yamanashi) • Kimiro Meguro • Miho Ohara • Shinya Kondo • Shinsaku Zama • Makoto Endo • Keiji Kobayashi • Takeyasu Suzuki • Itsuki Noda • Hiroki Shimora
- GO19-Thu-PM-9** Effectiveness of Information Sharing for Disaster Responses by Information Systems
Shinya Kondo (The University of Tokyo) • Kimiro Meguro
- GO19-Thu-PM-10** Full-Scale Shaking Table Tests for Assessment of Functionality in Medical Facility Against Earthquake - Response and Damage of Equipment in Facility
Eiji Sato (National Research Institute for Earth Science and Disaster Prevention) • Sachi Furukawa • Takahito Inoue • Kunio Fukuyama • Hisanobu Sakai • Astuo Kakehi • Kenichi Kobayasi • Masayoshi Nakashima

Theme25 Disaster Preventing Plan and Countermeasure against Earthquake

15:10-17:10

Conference Room 202B

- GO20-Thu-PM-1** Extraction of Redevelopment Areas by a Life Risk Modeling at Metropolitan Earthquake Disasters Using GIS and Satellite Remote Sensing
Daijiro Kaneko (Remote Sensing Environmental Monitor) • Junsaku Asada • Koichi Yokoyama
- GO20-Thu-PM-2** Effect of Use of Walking Aid on Tsunami Refuge Safety of Area
Takashi Minamoto (The University of Tokushima) • Yoshifumi Nariyuki
- GO20-Thu-PM-3** Disaster Mitigation Planning in Fishery Region Through Participating by People Concerned
Masayuki Fudo (The Japanese Institute of Technology on Fishing Ports) • Koji Watanabe • Fumihiko Imamura
- GO20-Thu-PM-4** Start-Up of a JST-JICA Satepres Project: Enhancement of Earthquake and Tsunami Disaster Mitigation Technology in Peru
Fumio Yamazaki (Chiba University) • Shoichi Nakai • Shun'ichi Koshimura • Taiki Saito • Saburoh Midorikawa • Carlos Zavala • Zenon Aguilar • Miguel Estrada
- GO20-Thu-PM-5** Comparative Study on the Non-Engineered Housing Construction Process in the Several Disaster Areas
Satoshi Tanaka (Fuji Tokoha University) • Norio Maki
- GO20-Thu-PM-6** Study on Post Earthquake Living Sustainability in Rural Area, a Case Study on Tono Mizunami Area
Jun Takechi (Kobe University) • Yasuko Kuwata • Tadataka Nakashima • Yutaka Ohta
- GO20-Thu-PM-7** Basic Study on Scenario of Earthquake Disaster in Consideration of Disaster Preparedness for Planning of Post-Earthquake Disaster Recovery and Reconstruction
Masato Ikeda (Nagoya University) • Takayuki Hayashi • Kazumi Kurata • Nobuo Fukuwa • Masafumi Mori
- GO20-Thu-PM-8** Study of Seismic Retrofitting Implementation for Masonry Houses Using PP-Band Method
Naoki Sorimachi (Tokyo Electric Power Company) • Muneyoshi Numada • Kimiro Meguro
- GO20-Thu-PM-9** A Study on Estimation of Disaster Wastes Based on Recent Earthquake Statistics
Hitomi Murakami (Yamaguchi University)

Theme1 Earthquake Damage

13:30-15:10

Conference Room 303

- GO27-Thu-PM-1** Relation between Damage Distribution of Historical Monuments and Site Condition in the Old City of Istanbul during the 1894 Marmara Sea, Turkey, Earthquake
Masashi Morita (Tokyo Institute of Technology) • Saburoh Midorikawa • Atilla Ansal • Barbaros Centiner
- GO27-Thu-PM-2** Visual Damage Detection of Buildings Using Quickbird Images Following the 2007 Pisco, Peru Earthquake
Shizuko Matsuzaki (Chiba University) • Fumio Yamazaki • Miguel Estrada • Carlos Zavala
- GO27-Thu-PM-3** Extracting the Building Response Using Microtremor Records of Damaged Buildings during the 2008 Wenchuan Earthquake
Xin Wang (AIT) • Kazuaki Masaki • Kojiro Irikura

- GO27-Thu-PM-4** Analyses of Strong Ground Motion and Damage of Large Scale Buildings by September 30, 2009 Pariaman Earthquake
Yozo Goto (Earthquake Research Institute, the University of Tokyo) • Mulyo Harris Pradono • Rusnardi Rahmat • Akio Hayashi • Kazuhiro Miyatake
- GO27-Thu-PM-5** Damage Characteristics for Small Embankment Dams Due to Earthquakes on Northern Awaji Island of Hyogo-Ken in 1995 and around Nagaoka Area of Niigata-Ken in 2004
Hiroaki Fujii (Okayama Prefectural Federation of Land Improvement Association) • Tadashi Shigeno • Tsutomu Sekikawa
- GO27-Thu-PM-6** Liquefaction and Tombstone Damage during the Suruga-Bay Earthquake, August 11, 2009
Shigeru Miwa (Research Institute of Technology, Tobishima Corporation) • Omer Aydan • Yoshimi Ohta
- GO27-Thu-PM-7** Relationship between Ground and Damage to Various Tanks
Makoto Nasu (Previous Maebashi Institute of Technology)
- GO27-Thu-PM-8** Survey of Monuments from the Great Kanto Earthquake in the Present City: A Basic Data for the Disaster Prevention of Tokyo Metropolis
Masayuki Takemura (Kobori Research Complex)

Theme7 Tsunami and Disaster Mitigation

**15:20-17:00
Conference Room 303**

- GO28-Thu-PM-1** Time-Lag of Seismic Event on Nankai Trough Affect Tsunami Hazard at Local Area
Hidearu Sugino (Japan Nuclear Energy Safety Organization) • Yoko Iwabuchi • Haruo Kunishi • Masaharu Sakagami • Katsumi Ebisawa
- GO28-Thu-PM-2** The Problem of Measures for the Tsunami of Chile Earthquake of National Highway No. 45 and Future Ideal Method
Takao Hashimoto (Chiyoda Engineering Consultants)
- GO28-Thu-PM-3** Response of Coastal Residents in Choshi City, Chiba Prefecture during the 2010 Chile Earthquake Tsunami
Kazuo Fujimoto (Chiba Institute of Science) • Fusaji Muroi • Masamichi Kageshima • Takahito Noto
- GO28-Thu-PM-4** Investigation on Drifting of Culture Equipment by Tsunamis
Yuichi Tanji (The Japanese Institute of Technology on Fishing Ports, Grounds and Communities) • Koji Fujima • Yoshinori Shigihara • Hiroyuki Kato
- GO28-Thu-PM-5** Evaluation of a Tsunami Wave Load on a Bridge Deck Subjected to Breaker Bores
Yu Hiraki (University of Tsukuba) • Gaku Shoji
- GO28-Thu-PM-6** Damage Assessment of Houses Due to the 2001 Southern Peru Earthquake Tsunami
Yusuke Tani (University of Tsukuba) • Gaku Shoji • Syunichi Koshimura • Estrada Miguel
- GO28-Thu-PM-7** Regional Comparative Analysis of Recovery Process in Indonesia after the 2004 Indian Ocean Tsunami
Kazuya Sugiyasu (Univ. of Tsukuba) • Osamu Murao
- GO28-Thu-PM-8** Degradation of Ground Due to Tsunami Considering Liquefaction Using Various Tsunami Waveforms
Yoshihiro Okumura (Disaster Reduction and Human Renovation Institution) • Ryosuke Kato • Fusao Oka • Yoshiaki Kawata

Theme17 Wooden Structure and Traditional Architecture

**13:00-15:00
Conference Room 405**

- GO35-Thu-PM-1** Seismic Performance Evaluation of Non-Structural Member at Wood House by Static Loading Tests
Hidemaru Shimizu (Shinsyu University) • Takuro Mori • Ryuusuke Hada • Yuusuke Nishinuma • Munekazu Minami • Hiroshi Isoda • Kohei Komatsu
- GO35-Thu-PM-2** Collapse Mechanism of 3-Story Wood Houses Made by Different Design Methods of Joint at Top and Bottom of Columns with Shaking Table Tests
Ryusuke Hada (Shinshu Univ.) • Hiroshi Isoda • Naohito Kawai • Takahiro Tsuchimoto • Yusuke Nishinuma
- GO35-Thu-PM-3** Deformation Behavior of 3-Story Wood Dwelling Houses Differ from Rigidity of Horizontal Diaphragm and Arrangement of Shear Walls with Shaking Table Tests
Kenji Kobayashi (Shizuoka University) • Masahiro Inayama • Hiroshi Isoda • Takahiro Tsuchimoto • Yo Ochiai

- GO35-Thu-PM-4 Design Methods and Shaking Table Tests on 3-Story Wood Houses by Post and Beam Construction -Part9 Result of Specimen No.4
Kaori Fujita (The University of Tokyo) • Toshiaki Sato • Takahiro Tsuchimoto • Hiroshi Isoda • Naohito Kawai
- GO35-Thu-PM-5 Verification on the Structural Design Methods for 3-Story Wood Houses by the Shaking Table Tests.
Takahiro Tsuchimoto (National Institute for Land and Infrastructure Management) • Ryusuke Hada • Yusuke Nishinuma • Kenji Kobayashi • Hiroshi Isoda • Kaori Fujita • Naohito Kawai
- GO35-Thu-PM-6 Study of Coupled Vibration among Interconnected Buildings of Timber Structure Based on Microtremor Measurements
Hirotsugu Hayashi (The University of Tokyo) • Kaori Fujita • Mitsuru Ishii • Hiroyuki Kobayashi
- GO35-Thu-PM-7 Study on Seismic Design of Wooden House with Three Dimensional Eccentricity Considering Seismic Force
Shinji Hikita (Kogakuin Univ.) • Kenji Miyazawa
- GO35-Thu-PM-8 Experimental Study on Bending Strength of Mortise-Tenon Joint with Dowel
Hirotaka Udagawa (Tokyo Institute of Technology) • Yoshihiro Yamazaki • Hiroyasu Sakata • Yoshimitsu Ohashi
- GO35-Thu-PM-9 A Study on Bending Behavior of Timber Joint Using Lagscrewbolts and Drift Pins
Shinobu Miyaki (Tokyo Institute of Technology) • Hiroyasu Sakata • Hiromichi Ito • Azuma Fujishiro
- GO35-Thu-PM-10 Study on Mechanical Behavior of Moment Resisting Timber Frame with Bearing Wall
Takahiro Yoshinaga (Tokyo Institute of Technology) • Yoshihiro Yamazaki • Hiroyasu Sakata • Hiromichi Ito • Azuma Fujishiro

Theme17 Wooden Structure and Traditional Architecture

15:10-16:50
Conference Room 405

- GO36-Thu-PM-1 Static Loading Test of Wooden House
Kazumasa Takada (Shinshu University) • Hiroshi Isoda • Takahiro Tsuchimoto • Naohito Kawai • Takahumi Nakagawa • Ken-Ichi Sugimoto • Kenji Aoki • Chihiro Tsuda
- GO36-Thu-PM-2 Structural Performance of the Seismic Retrofit Method for Existing Wooden House by External Reinforcing
Takashi Taguchi (Yahagi Construction) • Takashi Kamiya • Manabu Haginoya • Tatsuzo Umeno • Tadatoshi Furukawa
- GO36-Thu-PM-3 Seismic Retrofit Methods for Old Wooden Houses Using Tie Rods Anchored in Ground
Arata Miyoshi (Tokyo Institute of Technology) • Midori Tsuzuki • Shoichi Kishiki • Akira Wada
- GO36-Thu-PM-4 Conversion Rule for Wooden Passively Controlled Frame to Spring Model and Consideration of Passive Control Effect
Yoshihiro Yamazaki (Tokyo Institute of Technology) • Kazuhiko Kasai • Hiroyasu Sakata • Kazuhiro Matsuda
- GO36-Thu-PM-5 Evaluation of Seismic Performance of Wooden Panel with Compressive Oil Damper
Yuji Miyazu (Waseda University) • Satsuya Soda • Yousuke Nakamura • Mitsuhiro Noguchi
- GO36-Thu-PM-6 Performance Evaluation of Wooden Houses with Two Types of Structural Control Devices and Study on Influence on Woodframe
Takuya Aoki (Tokyo University of Science) • Toshiaki Sato • Yuichi Masaki • Michio Iguchi • Masayuki Nagano
- GO36-Thu-PM-7 Modeling of Woodframe with Visco-Elastic Structural Control Devices for Evaluation of Stiffness under Static Loading
Toshiaki Sato (The University of Tokyo) • Takuya Aoki • Yuichi Masaki • Masayuki Nagano • Michio Iguchi
- GO36-Thu-PM-8 Dynamic Analysis of Frame Model for Wooden Frame with Passive Control System
Kazuhiro Matsuda (Tokyo Institute of Technology) • Kazuhiko Kasai • Hiroyasu Sakata

Theme14 Dynamic Soil-Structure Interaction

13:00-14:30
Conference Room 406

- GO43-Thu-PM-1 A Basic Study on Time Domain Energy Transmitting Boundary
Naohiro Nakamura (Takenaka Corporation)
- GO43-Thu-PM-2 Influence of Irregular Soil Layers on Vibration of Nuclear Power Plants during 2007Niigata-Ken Chuetsu-Oki Earthquake
Yasushi Nukui (Tokyo Electric Power Company) • Katsuichirou Hijikata • Fumio Yagishita • Tadahiko Shiomi
- GO43-Thu-PM-3 Effects of Dynamic Soil-Structure Interaction Comparison with Fixed Model in Shear Force Coefficients
Shinji Ito (Daiwahouse Industry Co., Ltd.) • Atsuko Shirayama • Tadamichi Yamashita • Kensuke Baba
- GO43-Thu-PM-4 Simplified Evaluation Methods for Foundation Input Motion of Embedded Foundation
Tsuguyoshi Suzuki (Nagoya University) • Nobuo Fukuwa • Masafumi Mori • Jun Tobita
- GO43-Thu-PM-5 Change in Seismic Earth Pressure - Displacement Relationships Due to the Embedment Depth
Hideyuki Mano (Shimizu Corporation) • Yasuhiro Shamoto
- GO43-Thu-PM-6 Stress of Piles on Piled Raft Foundation Subjected to Ground Deformation during Earthquake
Junji Hamada (Takenaka Research & Development Inst.) • Akihiko Uchida • Tomohiro Tanikawa • Munenori Hatanaka
- GO43-Thu-PM-7 Earthquake Response of Building Supported on Piles Considered with Nonlinearity of Pile-Soil System
Hisatoshi Kashiwa (Osaka University) • Takahiko Hidekawa • Miki Kishimoto • Yuji Miyamoto • Shuji Tamura

Theme14 Dynamic Soil-Structure Interaction

15:10-16:50
Conference Room 406

- GO44-Thu-PM-1 Seismic Design Method of Pier Considering the Dynamic Interaction with Covered Concrete
Hiroki Motoyama (Railway Technical Research Institute) • Takayoshi Nishimura • Yoshitaka Murono
- GO44-Thu-PM-2 Analytical Study on Seismic Response of Pier Structure Deeply Embedded in the Soil
Takayoshi Nishimura (Railway Technical Research Institute) • Yoshitaka Murono
- GO44-Thu-PM-3 Evaluation of Seismic Performance of Bridge Pier Considering Interaction with Embankment
Kazuya Tanoue (Railway Technical Research Institute) • Kimitoshi Sakai • Yoshitaka Murono
- GO44-Thu-PM-4 Shaking Table Test for Pile Foundation in Large Scale Laminar Box Considering Dynamic Interaction of Pile and Ground
Masakazu Teshima (Railway Technical Research Institute) • Hidetoshi Nishioka • Taisuke Sanagawa • Ryo Sawada • Masayuki Koda • Akihiro Toyooka • Yoshitaka Murono
- GO44-Thu-PM-5 Dynamic Centrifuge Test and FE Analysis of RC Pile Foundation
Takuya Anabuki (Obayashi Corporation) • Takahiro Tsutsumiuchi • Kenji Yonezawa • Shunichi Higuchi • Koji Ito • Joji Ejiri
- GO44-Thu-PM-6 Effects of Roughness of Footing Surface on Superstructure Response during a Large Earthquake
Shuji Tamura (Kyoto University) • Keisuke Adachi • Kohji Tokimatsu
- GO44-Thu-PM-7 Evaluation of Seismic Response Characteristics of Soil-Structure Systems by Micro-Earthquake Array Observations
Shinichiro Mori (Ehime University) • Masaya Furukawa

November 19 (Fri.)

Damage and Lessons of 2010 Chile Earthquake

9:00-12:30
Convention Hall 200

Program numbers with “○” mark are invited lectures.

- OS7-Fri-AM(OS7)-1** ○ Strong-Motion Records and Site Characteristics in the 2010 Maule, Chile Earthquake
Saburoh Midorikawa (Tokyo Institute of Technology) • Hiroyuki Miura
- OS7-Fri-AM(OS7)-2** Damage Investigation of the 2010 Chile Earthquake and Tsunami Seismic Ground Motions and Site Effects
Toru Sekiguchi (Chiba University) • Nelson Pulido • Gaku Shoji • Jorge Alva • Fernando Lazares
- OS7-Fri-AM(OS7)-3** ○ Geotechnical Related Damage during the 2010 Chile, Maule Earthquake
Susumu Yasuda (Tokyo Denki University) • Kazuo Konagai • Takahiro Sugano • Mitsu Okamura • Tetsuo Tobita
- OS7-Fri-AM(OS7)-4** ○ Damage of Bridges Due to 2010 Chile Earthquake
Jun-Ichi Hoshikuma (Center for Advanced Engineering Structural Assessment and Research) • Kazuhiko Kawashima • Shigeki Unjoh • Kenji Kosa
- OS7-Fri-AM(OS7)-5** Damage Investigation of the 2010 Chile Earthquake and Tsunami
- Building Damage Investigation -
Taiki Saito (Building Research Institute) • Susumu Kono • Koichi Kusunoki • Yousok Kim • Tomoya Matsui • Masanori Tani • Yo Hibino • Carlos Zavala • Patricia Gibu
- OS7-Fri-AM(OS7)-6** ○ Damage of Buildings on 2010 Chile Maule Earthquake
Keiichi Katori (Toyo University) • Katsumi Kobayashi
- OS7-Fri-AM(OS7)-7** ○ The Field Survey of the 2010 Chilean Earthquake Tsunami
Fumihiko Imamura (Tohoku University) • Koji Fujima • Taro Arikawa
- OS7-Fri-AM(OS7)-8** Damage Investigation of the 2010 Chile Earthquake and Tsunami -A Post-Tsunami Field Survey
Shunichi Koshimura (Tohoku University) • Masashi Matsuoka • Masafumi Matsuyama • Takumi Yoshii • Erick Mas • Cesar Jimenez • Fumio Yamazaki
- OS7-Fri-AM(OS7)-9** Damage Investigation of the 2010 Chile Earthquake and Tsunami
- Construction of GIS for Damage Analysis -
Yoshihisa Maruyama (Chiba University) • Fumio Yamazaki • Hiroyuki Miura • Shizuko Matsuzaki • Miguel Estrada
- OS7-Fri-AM(OS7)-10** Damage Investigation of the 2010 Chile Earthquake and Tsunami
Gaku Shoji (University of Tsukuba) • Nelson Pulido • Toru Sekiguchi • Jorge Alva • Fernando Lazares • Taiki Saito

Roadmap for Seismic Safety of Nuclear Facilities

14:30-16:00
Convention Hall 200

Program numbers with “○” mark are invited lectures.

- OS3-Fri-PM1(OS3)-1** Development of Earthquake Engineering Research Roadmap for Nuclear Power Plant Installations
Hiroyuki Kameda (JNES) • Tsuyoshi Takada • Nozomu Yoshida • Susumu Nakamura • Hidetaka Nakamura
- OS3-Fri-PM1(OS3)-2** ○ The Seismic Safety Logic for Design and Assessment of Nuclear Power Plants
Yoshiyuki Narumiya (The Kansai Electric Power Co.,Inc.) • Hirotada Ohashi • Koichi Miyata • Norio Watanabe
- OS3-Fri-PM1(OS3)-3** ○ Rule of Seismic PSA on Relation between Defense in Depth and Safety Goal
Katsumi Ebisawa (Japan Nuclear Energy Safety Organization) • Mitsumasa Hirano
- OS3-Fri-PM1(OS3)-4** ○ Seismic Design vs. Seismic Evaluation of the Nuclear Power Plant Equipment
Kanehiro Ochiai (Japan Nuclear Technology Institute)
- OS3-Fri-PM1(OS3)-5** ○ Seismic Margin of Nuclear Power Plant
Naotaka Takamatsu (Japan Nuclear Energy Safety Org) • Katsumi Ebisawa
- OS3-Fri-PM1(OS3)-6** Future Issues on Probabilistic Seismic Hazard and Determination of Design-Basis Ground Motions
Tsuyoshi Takada (The University of Tokyo)

Roadmap for Seismic Safety of Nuclear Facilities

16:15-17:45
Convention Hall 200

Program numbers with “○” mark are invited lectures.

- OS3-Fri-PM2(OS3)-7** ○ Research Projects on Earthquake Ground Motion and Probabilistic Seismic Hazard Analysis for Seismic Safety Problem of Nuclear Power Plant
Tadashi Annaka (Tokyo Electric Power Services Co.)
- OS3-Fri-PM2(OS3)-8** ○ Some Issues for Dynamic Behavior of the Ground around the Facilities of Nuclear Power Plant during Earthquake
Susumu Nakamura (Nihon University, College of Engineering, Dept of Civil Engineering) • Nozomu Yoshida • Ikumasa Yoshida
- OS3-Fri-PM2(OS3)-9** ○ Earthquake Engineering Issues Relating to Buildings and Structures in Nuclear Power Plants
Yoshikatsu Imazuka (Obayashi Corporation)
- OS3-Fri-PM2(OS3)-10** ○ Seismic Engineering Issue of Equipment and Piping
Keisuke Minagawa (Tokyo Denki University) • Satoshi Fujita
- OS3-Fri-PM2(OS3)-11** ○ The Application of Seismic Isolation Technology to Nuclear Power Plant Facilities
Masaru Kikuchi (Hokkaido University)
- OS3-Fri-PM2(OS3)-12** Difference of Earthquake Safety of Atomic Power Plant in the Engineer's Viewpoint and the Citizen's One
Motohiko Hakuno

Discussion: Roadmap for Seismic Safety of Nuclear Facilities 17:45-18:30 Convention Hall 200

Theme15 Experiment and Observation of Structures, Structural Members and Components 9:00-10:30 Conference Room 201

- GO5-Fri-AM-1** Evaluation of Damping Characteristics Based on a Shaking Table Test on a Full-Scale Steel Building
Yangpyong Kim (Meiji Univ) • Masahito Kobayashi
- GO5-Fri-AM-2** Collapse Assessment of Steel Moment Frames Based on E-Defense Full Scale Shake Table Collapse Tests
Dimitrios Lignos (Kyoto University) • Tsuyoshi Hikino • Yuichi Matsuoka • Masayoshi Nakashima
- GO5-Fri-AM-3** Scale Effect on the Seismic Performance of RC Bridge Columns Based on Full-Scale and Scaled Model Experiments
Keisuke Ohta (Tokyo Institute of Technology) • Kazuhiko Kawashima • Tomohiro Sasaki
- GO5-Fri-AM-4** A Study on Effect of Specimen Size on Dynamic Behavior and Failure Mechanism of Reinforced Concrete Bridge Columns Constructed in 1970's
Junichi Sakai (Public Works Research Institute) • Shigeki Unjoh • Jun-Ichi Hoshikuma
- GO5-Fri-AM-5** Experimental Method of Passively Controlled Multi Story Frame Using Vibration Generator on Simulating Shaking Table Test
Kohei Soeta (Tokyo University of Science) • Takushi Ishida • Daiki Sato • Haruyuki Kitamura • Kazuhiko Sasaki • Mitsuru Miyazaki • Yuichi Iwasaki • Keisuke Yoshie • Masato Ishii
- GO5-Fri-AM-6** New Dynamic Testing Method on Rocking Frame and Verification Experiment
Masataka Nonoyama (Tokyo Institute of Technology) • Shoichi Kishiki • Akira Wada
- GO5-Fri-AM-7** Development of a Simplified Shaking Table Test Method Using Ultra-Small Scale HPFRCC Models : Part XVI Verification of Effectiveness of Models by Labor Saving.
Tatsuya Suzuki (The University of Tsukuba) • Yuki Sakai

Theme15 Experiment and Observation of Structures, Structural Members and Components 10:40-12:20 Conference Room 201

- GO6-Fri-AM-1** Seismic Performance of Polypropylene Fiber Reinforced Cement Composite Bridge Column Based on E-Defense Shake Table Excitations
Kazuhiko Kawashima (Tokyo Institute of Technology) • Richelle Zafra • Tomohiro Sasaki • Hiroshi Matsuzaki • Koichi Kajiwara • Manabu Nakayama
- GO6-Fri-AM-2** Stress-Strain Relation of Polypropylene Fiber Reinforced Cement Composites for Use in Bridge Columns Subjected to Earthquake Excitation
Richelle Zafra (Tokyo Institute of Technology) • Kazuhiko Kawashima • Tomohiro Sasaki • Koichi Kajiwara • Manabu Nakayama

- GO6-Fri-AM-3** Effectiveness of In-Core Shield for Enhancing the Seismic Performance of RC Bridge Columns Subjected to Extreme Ground Motions
Guilian Quan (Tokyo Institute of Technology) • Kazuhiko Kawashima • Tomohiro Sasaki
- GO6-Fri-AM-4** Seismic Performance of a RC Bridge Column with Termination of Longitudinal Bars Based on E-Defense Shake Table Experiments
Tomohiro Sasaki (Tokyo Institute of Technology) • Kazuhiko Kawashima • Koichi Kajiwara
- GO6-Fri-AM-5** Shake Table Experiment on Damage Free RC Bridge Column Using E-Defense
Manabu Nakayama (National Research Institute for Earth Science and Disaster Prevention) • Kouichi Kajiwara • Kazuhiko Kawashima
- GO6-Fri-AM-6** Experimental Study of Seismic Response of Abutment
Hidetoshi Nishioka (Railway Technical Research Institute) • Kenji Watanabe • Masahiro Shinoda • Ryo Sawada • Masayuki Koda
- GO6-Fri-AM-7** The Bilateral Cyclic Loading Test of RC Pier Using Ultra-High-Strength Fiber-Reinforced Concrete
Naoki Sogabe (Kajima Technical Research Institute) • Shinichi Yamanobe • Yoshihisa Kanamitsu • Kris-Szu Chia Huang • Tomohiro Sasaki • Kazuhiko Kawashima
- GO6-Fri-AM-8** Seismic Behavior of Bridge Substructures after Strengthening.
Masakazu Abe (Saitama University) • Hiroshi Mutsuyoshi • Takeshi Maki • Anawat Chotesuwan

Theme15 Experiment and Observation of Structures, Structural Members and Components
14:30-16:10
Conference Room 201

- GO7-Fri-PM-1** Experimental Study on Plastic Deformation Performance of Reinforced Concrete Rigid Frame Structure with L Shaped Cross Section
Yoshitaka Nakata (Soil Mechanics and Dynamics Team, PWRI) • Shunsuke Tanimoto • Susumu Nakajima • Tetsuya Sasaki
- GO7-Fri-PM-2** Relation between Displacement in Lateral Strength Deterioration Region and Collapse Displacement for Reinforced Concrete Shear Columns
Naoki Kano (Taisei Corporation) • Takaya Nakamura • Manabu Yoshimura
- GO7-Fri-PM-3** Evaluation Method of Ductility Index for R/C Shear Columns
Katsuhiko Shibuichi (Obayashi Corporation) • Manabu Yoshimura
- GO7-Fri-PM-4** Relation between Crack Width and Crack Length Due to the Seismic Displacement Time-History of R/C Members
Noriyuki Takahashi (The University of Tokyo) • Yoshiaki Nakano
- GO7-Fri-PM-5** Cumulative Rotation Capacity of Beam-to-Column Connections with RC Floor Slabs
Yu-Lin Chung (The University of Kyoto) • Tomohiro Matsumiya • Takuya Nagae • Kunio Fukuyama • Masayoshi Nakashima
- GO7-Fri-PM-6** Experimental Study on Shear Strength with Joint Shape of Exterior Beam-Column Joint Using Mechanical Anchor
Minsu Jo (Tohoku University) • Kota Miura • Joji Sakuta • Masaki Maeda
- GO7-Fri-PM-7** Skeleton Curves of Restoring Force Characteristics for Reinforced Concrete Interior Beam-Column Joints
Sungyong Park (Tokyo University) • Fumio Kusuhara • Hitoshi Shiohara
- GO7-Fri-PM-8** Effects of Design Parameters on Ultimate Strength of Reinforced Concrete Beam-Column Joints
Fumio Kusuhara (The University of Tokyo) • Hitoshi Shiohara

Theme15 Experiment and Observation of Structures, Structural Members and Components
16:20-17:50
Conference Room 201

- GO8-Fri-PM-1** Lateral Loading Tests on Spread Foundation in an Existing Reinforced Concrete School Building - Test Plan -
Toshimi Kabeyasawa (Earthquake Research Institute) • Toshikazu Kabeyasawa • Yousok Kim • Yoji Hosokawa
- GO8-Fri-PM-2** Lateral Loading Tests on Spread Foundation in an Existing Reinforced Concrete School Building - Test Results -
Toshikazu Kabeyasawa (Building Research Institute) • Toshimi Kabeyasawa • Yousok Kim • Yoji Hosokawa

- GO8-Fri-PM-3** Evaluation of Damping Properties of Lightweight Low-Rise Structure
Sungbin Song (Waseda University) • Satsuya Soda
- GO8-Fri-PM-4** Full Scale Shaking Table Test of Confined Masonry Structure
Hiroschi Imai (Mie University) • Toshikazu Hanazato • Chikahiro Minowa •
Tatsuo Narafu • Yuji Ishiyama
- GO8-Fri-PM-5** Dynamic Performance of Greek Stone Temple in Comparison with Japanese Timber Pagoda
Harris Mouzakis (National Technical University of Athens) • Niki Miltiadou •
Maria Ioannidou • Toshikazu Hanazato • Mariko Ohmura •
Chikahiro Minowa • Takafumi Nakagawa • Yasufumi Uekita • Akira Wada •
Satoshi Nishioka
- GO8-Fri-PM-6** Vibration Characteristics of Historic Structure in Kathomandu, Nepal
Junji Kiyono (Kyoto University) • Masatoshi Tatsumi • Hitoshi Taniguchi •
Parajuli Hariram • Kenzo Toki • Aiko Furukawa
- GO8-Fri-PM-7** Vibration Damping Characteristics of Eaves of Important Cultural Properties, AKAGANE-GOTEN
Kiyoshi Shingu (Nihon University) • Kiyotoshi Hiratsuka • Tomoe Watanabe

Theme18 Seismic Isolation and Structural Control

9:00-10:40

Conference Room 202A

- GO13-Fri-AM-1** Application of Active Base Isolation System Using Absolute Vibration Control Theory
Mitsuru Kageyama (Obayashi Corporation) • Osamu Yoshida • Takeshi Sano •
Tetsumi Watanabe • Fumiaki Endo • Masayuki Yamanaka • Hideo Katsumata
- GO13-Fri-AM-2** Switching Vibration Control Method of Tuned Viscous Mass Damper with Active and Passive Modes
Shingo Watanabe (Tokyo University of Science) • Takafumi Tomaru • Takuma Sekine •
Kazuki Chiba • Satoshi Kurita
- GO13-Fri-AM-3** Mechanical Properties of the Vibration Control System Using Bending Yielding Studs
Masaru Hasui (Toyohashi University of Technology) • Manabu Haginoya •
Takashi Taguchi • Yukihiko Matsumoto • Sho Saito • Seishi Yamada
- GO13-Fri-AM-4** Plastic Rotation Capacity of Steel Beam-Column Subassemblies with Wall-Type Dampers
Shoichi Kishiki (Tokyo Institute of Technology) • Naoto Kamoshita • Akira Wada
- GO13-Fri-AM-5** Seismic Performance Evaluation of Retrofitted Building by Hysteretic Dampers.
(Conversion is Index of Seismic Retrofitted Building with Hysteretic Dampers Based on the
Energy Balance Method.)
Takuma Inden (Meiji University) • Masahito Kobayashi • Yutaka Isozumi
- GO13-Fri-AM-6** Performance Evaluation of Seismic Damper Considering Velocity Dependency
Takeshi Nishimura (Kumamoto University) • Taiji Mazda • Hiroshige Uno •
Hirokazu Miyamoto • Kouichi Yunoki
- GO13-Fri-AM-7** Performance Evaluation of Viscous Damper and Hysteresis Damper
Masaya Fujimoto (Eight-Japan Engineering Consultants Inc.) • Hirokazu Miyamoto •
Taiji Mazda • Hiroshige Uno • Kouichi Yunoki
- GO13-Fri-AM-8** Restoring Force Characteristics and Seismic Response of Steel House
Kazuya Sato (Waseda University) • Satsuya Soda • Takehiro Wakita • Keisuke Itani

Theme19 Smart Structures and Health Monitoring

10:50-11:50

Conference Room 202A

- GO14-Fri-AM-1** Relationship between Seismic Response Acceleration and Three-Dimensional Vibration Characteristics of Building No.1, Tokyo University of Science in Kagurazaka
Takaaki Matsubara (Tokyo University of Science) • Kaori Mimura • Kazuki Chiba •
Satoshi Kurita
- GO14-Fri-AM-2** Varying of Dynamic Characteristics of a Building and Prediction Accuracy by Regression Equation Examined with over the Long Term Earthquake Observation
Manabu Kawashima (Sumitomo Mitsui Construction) • Masayuki Nagano •
Toshihide Kashima • Michio Iguchi
- GO14-Fri-AM-3** Long-Term Vibration Monitoring on Passively Controlled Steel Building of E-Defense Full-Scale Test
Masaru Ono (Dept. of Architecture, Tokyo Univ. of Science) • Kenji Kanazawa •
Daiki Sato • Haruyuki Kitamura • Tsuyoshi Hikino
- GO14-Fri-AM-4** Structural Monitoring Using Optical Fiber Sensors in Order to Ensure and Keep Track of the Quality and Performance of Buildings from the Design to Post-Completion Stages
Takao Nishizawa (Nikken Sekkei) • Tomio Ohno • Jun Tobita • Nobuo Fukuwa

GO14-Fri-AM-5 Design of Unequally Slitted Steel Shear Walls for Monitoring Applications
Andres Jacobsen (Kyoto University) • Takuya Okamura • Masayoshi Nakashima

Theme19 Smart Structures and Health Monitoring **14:30-15:30**
Conference Room 202A

GO15-Fri-PM-6 Evaluation of Deflection of Girders of Multi-Span Bridges by Vibration Measurements
Yuki Matsumura (Ehime University) • Shinichiro Mori

GO15-Fri-PM-7 Detection of Dynamic Characteristics Variation of a Reinforced Concrete Structure by Means of Long-Term Continuous Vibration Observation, Ambient Vibration and Seismic Observation
Teruyuki Ueshima (Miyagi University) • Kazuyuki Sato • Kenji Kanazawa

GO15-Fri-PM-8 Damage Evaluation and Structural Health Monitoring of High-Rise Buildings by Use of Strong Motion Sensors
Jun Tobita (Nagoya University) • Nobuo Fukuwa

GO15-Fri-PM-9 Stiffness Monitoring on a Seismically-Damaged High-Rise Steel Building of E-Defense Full-Scale Tests

Natsuki Iino (Tokyo Univ. of Science) • Kenji Kanazawa • Masaru Ono • Daiki Sato • Haruyuki Kitamura • Takuya Nagae

GO15-Fri-PM-10 Reduction of Natural Frequency of RC Members Resulted from Shear Failure under Seismic Loads

Seiji Nagata (Central Research Institute of Electric Power Industry) • Kenji Kanazawa • Yoshinori Miyagawa • Takuro Matsumura

Theme20 Seismic Evaluation and Retrofit of Structures **15:40-17:40**
Conference Room 202A

GO16-Fri-PM-1 Study on Strength and Toughness in Post-Installed Adhesive Anchors.

-Comparing Investigation of Experimental Result with Design Formula-

Seira Owa (Hilti (Japan) Ltd.) • Yasutoshi Yamamoto • Tatsuya Kondo

GO16-Fri-PM-2 Seismic Retrofit of Existing RC Building with Rocking Walls and Steel Dampers

Zhe Qu (Tokyo Institute of Technology) • Shojiro Motoyui • Hiroyasu Sakata • Shoichi Kishiki • Akira Wada

GO16-Fri-PM-3 Evaluation of Dynamic Property of a Base-Isolated Building under Construction Based on Microtremor Measurement

Fumiaki Nagashima (Kyoto University) • Toshimoto Maeno • Shinichi Matsushima • Hiroshi Kawase

GO16-Fri-PM-4 Study on Seismic Performance of Low Earthquake Resistant Masonry Buildings Retrofitted by PP-Band Mesh

Navaratnarajah Sathiparan (The University of Tokyo) • Mayroca Paola • Meguro Kimiro

GO16-Fri-PM-5 Effect of Slit Installation on Seismic Performance of Old R/C Medium-Rise Residential Buildings

-Study Based on Nonlinear Frame Analysis Considering Column Strength Deterioration-

Kazuaki Hoki (Kyoto University) • Manabu Yoshimura

GO16-Fri-PM-6 Seismic Capacity Estimation of R/C Buildings with Irregular Plan Configuration under Translational Responses

Hiromasa Nakagami (The University of Tokyo) • Noriyuki Takahashi • Ho Choi • Yoshiaki Nakano

GO16-Fri-PM-7 Seismic Capacity Evaluation of RC Model Structures with Eccentricity Including Inelastic Torsional Behavior

Kazuyoshi Adachi (Shimizu Corporation) • Taku Hashimoto • Kazuki Tajima • Nobuaki Shirai

GO16-Fri-PM-8 A Study on the Technique for Quantitative Evaluation of Seismic Reinforcement Effect Based on Observed Data

Baoyintu (Kyoto University) • Hiroshi Kawase • Shinichi Matsushima

GO16-Fri-PM-9 Development of Sensor Calibration System for Low-Frequency Quakes

Masashi Nakamura (Tokyo Institute of Technology) • Tatsuhumi Atsumi • Hitoshi Kimura • Norio Inou • Masayuki Matsudaira • Minoru Yoshida

GO16-Fri-PM-10 Macroscopic Seismic Risk Assessment Method for Urgent Risk Estimation of Road Embankment

Kenji Hayashi (Forest Engineering, Inc.) • Ken-Ichi Tokida • Sadayuki Kamide

Theme26 Seismic Risk Management

9:00-10:50

Conference Room 202B

- GO21-Fri-AM-1** Probability Distribution for Seismic Risk and Seismic Risk Evaluation Using Seismic Response on Multi-Mass System with Probability-Changing Restoring Force Characteristics
Nobuhide Narita (Toda Corporation) • Masanobu Tohdo • Mitoshi Yasui • Osamu Kaneko
- GO21-Fri-AM-2** Seismic Damage Occurrence Risk of a Building-Horizontal Piping System According to Total Number of Building Floors
Aoi Nakakomi (Keio University) • Masayuki Kohiyama
- GO21-Fri-AM-3** Performance-Based Design of Steel Structure Buildings by Probable Maximum Loss Using Three Dimensional Dynamic Elasto-Plastic Analyses
Hiroshi Tsunekawa (Takenaka Corporation) • Tetsu Usami • Nobuo Nakayama
- GO21-Fri-AM-4** Examination about the Selection Method of Earthquake in Seismic Risk Assessment
Nobusuke Hasegawa (National Research Institute for Earth Science and Disaster Prevention) • Hiroyuki Fujiwara • Shinichi Kawai • Nobuyuki Morikawa • Yasushi Komaru
- GO21-Fri-AM-5** A Study on Appropriate Index for Seismic Risk Transfer Scheme
Takahide Akimoto (The Univ. of Tokyo) • Tatsuya Itoi • Tsuyoshi Takada
- GO21-Fri-AM-6** Development of the Building Structure Database for Seismic Risk Evaluation
Masahiro Ooi (National Research Institute for Earth Science and Disaster Prevention) • Keita Ishibashi • Hiroyuki Fujiwara
- GO21-Fri-AM-7** Earthquake Damage Estimation Used Population Data Classified According to Building Type
Kensuke Arai (The University of Tsukuba) • Yuki Sakai
- GO21-Fri-AM-8** Estimation of Optimum Investment in Pipe Line of Water Treatment Plant Using Seismic System Risk Analysis
Keisuke Baba (NJS Co.,Ltd.) • Kimiyasu Ohtake • Hiromichi Yoshikawa • Toshiro Shizuma
- GO21-Fri-AM-9** A Follow-Up Study on Earthquake-Related Health Consequences Via Additional Retrieval of Medical Articles
Yutaka Ohta (Tono Research Institute of Earthquake Science) • Tadayoshi Nakashima

Theme24 Lifeline and Transportation Systems

11:00-12:20

Conference Room 202B

- GO22-Fri-AM-1** Effect of Emergency Large-Area Assistance in Lifeline Restoration Process Due to Disruption of Road Networks
Ayumi Toyota (University of Tsukuba) • Gaku Shoji
- GO22-Fri-AM-2** Reliability Evaluation of Critical Infrastructure Networks in Views of a Seismic Hazard
Masafumi Tabata (University of Tsukuba) • Gaku Shoji
- GO22-Fri-AM-3** Sloshing Analysis of Water in Receiving Water Tank during Earthquake
Masakatsu Miyajima (Kanazawa University) • Koichi Murata
- GO22-Fri-AM-4** Relationship between Buried Pipe Damage and Seismic Motion in the 2007 Niigata-Ken Chuetsu-Oki,Japan,Earthquake
Kota Kimishima (Chiba University) • Yoshihisa Maruyama • Fumio Yamazaki
- GO22-Fri-AM-5** Fragility Curve of Sewerage System Based on Spatial Data of Seismic Damage
Shigeru Nagata (Kajima Technical Research Institute) • Hiroshi Ishida • Akihiro Kusaka • Masanori Hamada • Gaku Shoji • Kinya Yamamoto
- GO22-Fri-AM-6** Evaluation of Seismic Vulnerability of Sewerage Networks Based on the Damage Data in the 1995 Kobe Earthquake
Satoshi Naba (University of Tsukuba) • Gaku Shoji • Shigeru Nagata

Theme27 Human Behavior during and after Earthquakes and Education for Disaster Mitigation

14:30-16:20

Conference Room 202B

- GO23-Fri-PM-1** Development of Tsunami Dynamic Hazard Map
Koichi Takimoto (Yamaguchi University) • Fusanori Miura • Akinori Kawamura • Miyuki Yoshimura
- GO23-Fri-PM-2** Examination of Effective Utilization of Dynamic Hazard Map for Regional Disaster Prevention
Fusanori Miura (Yamaguchi University) • Koichi Takimoto • Miyuki Yoshimura • Akinori Kawamura
- GO23-Fri-PM-3** A Study on the Evacuation at the Time of Earthquake Disaster Based on Simulation Using Detailed Urban Data
Akio Yamanashi (Tokyo Metropolitan Government) • Shoichi Nakai • Toru Sekiguchi

- GO23-Fri-PM-4** Study on Human Evacuation Simulation in the High-Rise Building for Earthquake Disaster of Indoor Space
Hiroki Ito (Tohoku University) • Akihiro Shibayama • Susumu Ohno
- GO23-Fri-PM-5** Effects of Overturning of Furniture on Human Damage during Earthquakes.
Yoshimitsu Sugiyama (Knsai University) • Sanshiro Suzuki
- GO23-Fri-PM-6** The Effects of Human Emotion and Responses to Blood Flow to Acceleration and Amplitude
Junichi Tsuruta (Polus R&D Center of Life-Style Inc.,) • Kiyotaka Terui • Kohei Nomoto
- GO23-Fri-PM-7** Enforcement and Continuation of the Disaster Management Education for the Foreign Worker and the Foreign Student
Hiromi Kurosaki (Nagoya University) • Lewis Kachofwa • Algusty Luca
- GO23-Fri-PM-8** Development of Common Information Platform System for Disaster Safety Education Aids in School
Takeshi Sato (Tohoku University) • Akihiro Shibayama • Satoru Masuda • Masato Motosaka
- GO23-Fri-PM-9** Features of School Disaster Education Appearing in Contents of “Bousai Koushien”
Naoki Matsuura (Ehime University) • Shinichiro Mori

Theme28 Real Time Disaster Mitigation System, Early Warning System, and Ground Motion Observation System, and their applications **16:30-17:50**
Conference Room 202B

- GO24-Fri-PM-1** An On-Board Earthquake Early Warning Receiving Unit Using Satellite Broadcasting
Masahiro Korenaga (Railway Technical Research Institute) • Naoyasu Iwata • Kimitoshi Ashiya
- GO24-Fri-PM-2** Evaluation Method of Damage Mitigation by Earthquake Early Information for Running Trains
Naoyasu Iwata (Railway Technical Research Institute) • Shunroku Yamamoto • Kimitoshi Ashiya
- GO24-Fri-PM-3** Improvement of the Method of Seismic Damage Estimation for Wooden Houses Considering the Base Slip Behavior
Kazuto Matsukawa (Tohoku University) • Kazuya Mitsuji • Masaki Maeda
- GO24-Fri-PM-4** Interpretation of Seismic Observation and Response Prediction Using Animation Presentation of Time Histories Based on Virtual Reality Technology
Kazumi Kurata (Falcon Corporation) • Nobuo Fukuwa • Masafumi Mori
- GO24-Fri-PM-5** Evaluation of Available Escaping Time during a Quake by Earthquake Type
Sakae Saito (Kobe University) • Yasuko Kuwata
- GO24-Fri-PM-6** Development of Earthquake Immediate Warning System Using a Strong-Motion Observation Network for a Specific Active Fault
Hiromitsu Nakamura (NIED) • Takashi Kunugi • Shin Aoi • Shigeki Adachi • Shohei Naito • Hiroyuki Fujiwara • Shigeki Horiuchi

Theme5 Strong Ground Motion Prediction and Input Seismic Ground Motion **9:00-10:30**
Conference Room 303

- GO29-Fri-AM-1** “Recipe” of Strong Motion Prediction for Mega Fault Earthquakes
Kojiro Irikura (Aichi Institute of Technology) • Susumu Kurahashi
- GO29-Fri-AM-2** Construction of Characterized Source Model of Intraslab Earthquakes for Strong Motion Prediction
Tomotaka Iwata (DPRI, Kyoto University) • Kimiyuki Asano
- GO29-Fri-AM-3** Source Modeling and 3D Ground Motion Simulation of the 2007 Niigata-Ken Chuetsu-Okii Earthquake (Mj6.8)
Hidenori Kawabe (Kyoto University) • Katsuhiro Kamae
- GO29-Fri-AM-4** Validation of Velocity Structure Model for Strong Ground Motion Simulation of the 2007 Chuetsu-Okii, Japan, Earthquake Using the Voxel Finite-Element Method
Kenji Toda (Earthquake Research Institute, the University of Tokyo) • Kazuki Koketsu • Hiroe Miyake
- GO29-Fri-AM-5** GMS(Ground Motion Simulator) on GPU
Shin Aoi (National Research Institute for Earth Science and Disaster Prevention) • Naoki Nishizawa • Takayuki Aoki
- GO29-Fri-AM-6** A Procedure to Predict Strong Ground Motion with Long Duration Using Semi-Empirical Method
Hirohito Takahashi (Oyo Corporation) • Nobuo Fukuwa • Masafumi Mori • Jun Tobita

- GO29-Fri-AM-7** An Example of Study with Respect to Fourier Phase of Ground Motion and Location of Epicenter
Atsushi Wakai (Port and Airport Research Institute) • Atsushi Nozu

Theme5 Strong Ground Motion Prediction and Input Seismic Ground Motion

10:40-12:20

Conference Room 303

- GO30-Fri-AM-1** Examination on the Variation of the Records as Green's Functions
Dianshu Ju (Ohsaki Research Institute, Inc.) • Kazuo Dan • Jun Kanda • Naoki Uchida • Hideaki Tsutsumi
- GO30-Fri-AM-2** Effects of Difference of Source Spectrum Modeling for Middle-Size Earthquake on Synthetic Motions in Empirical Green Function Method
Kazuo Dan (Shimizu Corporation) • Aya Nomura • Saruul Dorjpalam • Haruyuki Kitamura
- GO30-Fri-AM-3** Broadband Ground Motion Simulation for Great Earthquakes along Sagami Trough with Multi-Scale Heterogeneous Source Modeling
Haruko Sekiguchi (Disaster Prevention Research Institute, Kyoto University) • Masayuki Yoshimi • Haruo Horikawa
- GO30-Fri-AM-4** Difference of Prediction Accuracy of Long Period Seismic Motion in the Kanto Basin by the Difference of 3D Model
Haruo Yoshida (Research & Development Institute, Takenaka Corporation) • Kikuji Kobayashi • Yoshiyuki Sato
- GO30-Fri-AM-5** Performance of Design Input Motions Selected Using Feature Indices to Represent Possible Ground Motions.
Tauqir Ahmed (Tokyo Institute of Technology) • Riki Honda
- GO30-Fri-AM-6** Engineering Margin of Design Earthquake Motions Evaluated from Earthquake Records Inventory
Kohei Tanaka (The University of Tokyo) • Tatsuya Itoi • Tsuyoshi Takada
- GO30-Fri-AM-7** Estimation of Predicted Strong Ground Motion Based on Energy Index of Seismic Wave
Toshiyuki Hirai (Newjec Inc.) • Sumio Sawada
- GO30-Fri-AM-8** Estimation of Strong Ground Motion Including the Specific Characteristics of Site Region
Masumitsu Kuse (Gifu University) • Masta Sugito • Takumi Kondou

Theme6 Seismic Hazard and Seismic Zonation

14:30-15:50

Conference Room 303

- GO31-Fri-PM-1** Seismic Hazard Evaluation of Shallow Inland Earthquakes Occurring at Location Where Active Fault Have not been Specified
Takahiro Sameshima (Shinozuka Research Institute) • Ryoichi Tamura
- GO31-Fri-PM-2** The Evaluation of Occurrence of Inland Earthquakes Based on the Strain Rate From GPS Data
Masashi Nakao (The Univ. of Tokyo) • Tatsuya Itoi • Tsuyoshi Takada
- GO31-Fri-PM-3** Investigation of Illustration and Its Characteristics for Spatial Distribution of Predominant Periods Obtained from High Density Microtremor >Observations in Yokohama City by Using GIS.
Naohiro Ueno (Kanagawa Univ.) • Takahisa Enomoto • Toshio Yamamoto
- GO31-Fri-PM-4** Study on the Seismic Response at Valley Plains in Tokyo Based on Representative Soil Profile Models
Hirokazu Watanabe (Tokyo Denki University) • Susumu Yasuda
- GO31-Fri-PM-5** Micro Zoning Seismic Response by Questionnaire Intensity in Shimane Prefecture
Soichiro Kawahara (Matsue College of Technogy) • Shin' ichiro Mori
- GO31-Fri-PM-6** Research on Creation of Digital Detailed Area Risk Map and Its Support System to Regionally Self Disaster Prevention Activity
Tsutomu Ochiai (Kozo Keikaku Engineering Inc.) • Toshio Kuriyama • Mitsufumi Hashimoto • Takahisa Enomoto • Nobuo Tsuyuki • Toshio Yamamoto

Theme8,9 Dynamic Characteristics of Soil and Ground, Nonlinear Ground Response and Failure

16:00-17:40

Conference Room 303

- GO32-Fri-PM-1** Relative Density and Undrained Cyclic Shear Strength of Decomposed Granite Soil "Masado"
Shohei Noda (Yamaguchi University) • Masayuki Hyodo • Wootae Kim • Norimasa Yoshimoto

- GO32-Fri-PM-2** Liquefaction Strength Characteristics of Sand Subjected to Long-Term Consolidation and Overconsolidation Under Ko-Consolidation Condition
Satoru Takagi (Kyushu Institute of Technology) • Hideo Nagase • Akihiko Hirooka • Daisuke Akase
- GO32-Fri-PM-3** Dynamic Shear Deformation and Strength of Sand and Clay Mixtures
Seiji Tateba (Yamaguchi University) • Masayuki Hyodo • Ukgie Kim
- GO32-Fri-PM-4** Estimation of Shallow S-Wave Velocity Structure Using Microtremor Exploration in Damascus City, Syria
Hussam Zaineh (Tokyo Institute of Technology) • Hiroaki Yamanaka
- GO32-Fri-PM-5** Numerical Simulation of Horizontal Wave Propagation in Liquefied Ground
Yoshikazu Shingaki (Tokyo Electric Power Service Co. Ltd.) • Sumio Sawada • Hiroyuki Goto
- GO32-Fri-PM-6** Calibrating Debris Flow Numerical Simulation Parameters for Proper Disaster Mitigation Strategy
-Case Study of Debris Flow in Muzaffarabad-
Zaheer Kazmi (University of Tokyo) • Kazuo Konagai • Takashi Kiyota • Ahsan Sattar
- GO32-Fri-PM-7** Proposals of Material Point Method for Three Dimensional Dynamic Analyses and Simulation of Uplift Mechanism of Open Cut Tunnel in Liquefied Ground in Shaking Table Tests
Keita Abe (Railway Technical Research Institute) • Masahiro Shinoda • Kenji Watanabe • Ryo Sawada • Kazutoshi Shiomi
- GO32-Fri-PM-8** Large Deformation Analysis of Earthquake Induced Damage in a River Dike during 1993 Hokkaido-Nansei-Okai Earthquake
Kyohei Ueda (Port and Airport Research Institute) • Susumu Iai • Tetsuo Tobita

Theme17 Wooden Structure and Traditional Architecture **9:00-10:20**
Conference Room 405

- GO37-Fri-AM-1** Analysis Method of Traditional Timber Buildings by Modeling Joint Details Considering Compressive Embedding
Shinya Matsumoto (Faculty of Engineering, Hiroshima University) • Syuhei Mitsui • Kazuo Kondoh • Yoshiyuki Suzuki • Yoshinobu Fujitani
- GO37-Fri-AM-2** Microtremor Observation and Frame Model Analysis to Evaluate Dynamic Characteristics of Wooden Multilayer Pagoda
Yoichi Mukai (Nara Women' s University) • Eiko Tanaka
- GO37-Fri-AM-3** Seismic Behavior of Frames with Hanging Walls of Traditional Wood House
Shin Katsuragawa (Shinshu University) • Naohito Kawai • Hiroshi Isoda • Takahumi Nakagawa • Minoru Okabe
- GO37-Fri-AM-4** Earthquake Response Analysis of Wooden Houses Considering Traditional Equipments
Akira Murata (Kanazawa University) • Takayuki Kamata • Toshikazu Ikemoto • Masakatsu Miyajima
- GO37-Fri-AM-5** Evaluation on Changes in Dynamic Characteristic during Dismantling and Reconstructing of Traditional Wooden Structure
Eiko Tanaka (Nara Women' s University) • Yoichi Mukai
- GO37-Fri-AM-6** Vibration Characteristics of Temples Based on Microtremor and Seismic Observation
Tomoki Fujii (Uotsu Shaji Corporation) • Jun Tobita • Nobuo Fukuwa

Theme17 Wooden Structure and Traditional Architecture **10:30-11:30**
Conference Room 405

- GO38-Fri-AM-1** Simulation for Static and Dynamic Loading Tests of Traditional Wooden Frames of Different Scales
Hideaki Tanahashi (Ritsumeikan University) • Tatsuru Suda • Yoshiyuki Suzuki
- GO38-Fri-AM-2** Field Survey of Indonesian Traditional Wooden Structure to Evaluate Seismic Performance
Yugo Ishizuka (Kyoto University) • Haruki Takahashi • Noriko Takiyama • Mitsuhiro Miyamoto • Yasuhiro Hayashi
- GO38-Fri-AM-3** Static Horizontal Cycle Loading Tests on Traditional Wooden Joints in the South of Tokushima Prefecture
Kana Hayashi (Kanazawa Institute of Technology) • Daiki Tsukahata • Haruka Miura • Masami Gotou • Yoshiyuki Suzuki

- GO38-Fri-AM-4** Seismic Reinforcement for Traditional Wooden Frame by Improvement of Restoring Force Due to Column Rocking
Tatsuru Suda (Ritsumeikan University) • Yasuhiko Tashiro • Kyosuke Mukaibo • Yoshiyuki Suzuki
- GO38-Fri-AM-5** Seismic Performance Evaluation of Nonbearing Mud-Walls of Traditional Wooden Houses in Kanazawa District.
Hiro Kawahara (Kanazawa Institute of Technology) • Kentarou Miyake • Masami Gotou • Tatsuru Suda • Yoshiyuki Suzuki

Theme16 Seismic Response of Structures and Facilities

**14:30-16:10
Conference Room 405**

- GO39-Fri-PM-1** Prediction of Seismic Response of Single-Story Steel Structure with Isolated Floor System
Yasushi Yano (Osaka Institute of Technology) • Yuji Koetaka
- GO39-Fri-PM-2** Study on Damping Characteristics of Response Spectrum for Various Earthquake Ground Motions
Akikazu Namiki (Meiji Univ.) • Masahito Kobayashi
- GO39-Fri-PM-3** Earthquake Response of Existing Steel Gymnasiums to Diversified Seismic Ground Motion.
Yutaka Isozumi (Meiji Univ) • Masahito Kobayashi
- GO39-Fri-PM-4** A Note on Dynamic Response Properties of Exceptional Strong Ground Motions with High PGA for Building Structures
Satoru Matsumoto (The University of Tokyo) • Tetsuo Kubo
- GO39-Fri-PM-5** Response of a Moment-Resisting Ductile Reinforced Concrete Frame Structure Subjected to Bidirectional Strong Ground Motions
- On Axial Force Fluctuation and Biaxial Bending of Columns -
Satoshi Matsudo (The University of Tokyo) • Tetsuo Kubo
- GO39-Fri-PM-6** Seismic Performance Evaluation of Existing Buildings in High Performance Society
Tomoki Hikosaka (Nagoya University) • Yutaka Soga • Nobuo Fukuwa • Masafumi Mori • Hirohito Takahashi
- GO39-Fri-PM-7** Fundamental Study on Seismic Mutual Effects between Underground Arcade and High Buildings by 3-D Dynamic Analysis
Yoshiaki Ariga (Hirosaki University) • Yuusuke Hirano • Keinosuke Inoko • Mikio Takeuchi • Akira Oguro • Hiroyuki Asaka
- GO39-Fri-PM-8** Effects of Nonlinear Site Amplification Characteristics on Required Strength of Wooden Building
Yosuke Kawakami (Shinozuka Research Institute) • Ryoichi Tamura • Masayoshi Takaki

Theme16 Seismic Response of Structures and Facilities

**16:20-18:10
Conference Room 405**

- GO40-Fri-PM-9** Prediction of Seismic Response Using Equivalent Linearization Method for a RC Building with Soft First Story
Ryota Shinba (Akita Prefectural University) • Hideto Kanno • Tetsuya Nishida • Jun Kobayashi
- GO40-Fri-PM-10** The Maximum Response of Single D.O.F. System with Elasto-Plastic Restoring Force Excited by Artificial Ground Motions
Ichiro Ichihashi (Kyoto Institute of Technology) • Akira Sone • Arata Masuda
- GO40-Fri-PM-11** Effect of Stiffness Eccentricity on Ultimate Lateral Strength and Energy Response of RC Buildings
Junichi Murakami (Akita Prefectural University) • Hideto Kanno • Tetsuya Nishida • Jun Kobayashi
- GO40-Fri-PM-12** Development of General-Purpose Hysteresis Characteristics Model for Seismic Damage Estimation
Hiroaki Iizuka (University of Tsukuba) • Yuki Sakai
- GO40-Fri-PM-13** Seismic Response Analysis of Multiple Supported Piping Systems with Friction
Kazumasa Tsuchikawa (Kyoto Institute of Technology) • Akira Sone • Arata Masuda • Tatsuya Yamauchi
- GO40-Fri-PM-14** Shaking Table Test Techniques to Realize High Frequency Input over Shaking Table Limitations
Ryuta Enokida (Kyoto University) • Kouichi Kajiwara • Takuya Nagae • Masayoshi Nakashima

- GO40-Fri-PM-15** Evaluation of Building Vibration Characteristics Using Seismic Records
Wataru Goto (NTT Facilities) • Hiroshi Dohi • Mikio Suzuki • Kenichi Yoshida •
Shigeto Nagashima • Yoshifumi Sugimura
- GO40-Fri-PM-16** Seismic Building Vibration Observation in University Campus: Difference of Seismic Responses of Buildings
Kiyoshi Takano (University of Tokyo) • Takamori Ito
- GO40-Fri-PM-17** Comparison of Earthquake Response Characteristics between Base Isolated Building and Non-Base Isolated Building by Using Earthquake Observation Records
Takahisa Enomoto (Kanagawa University) • Masayuki Ninomiya • Yasushi Miyamoto •
Toshio Yamamoto

**Theme4 Subsurface Structure and Earthquake Ground Motion 9:00-10:30
Conference Room 406**

- GO45-Fri-AM-1** Development of L1 GPS Positioning Algorithm for Monitoring Posture of RC Helicopter
Masayuki Saeki (Tokyo University of Science) • Hitoshi Morikawa • Shigeo Matsuda
- GO45-Fri-AM-2** Examination on Velocity and Damping Structures of KiK-Net Observation Sites in Fukui Prefecture
Yuzuru Yasui (Fukui University of Technology) • Hayato Nishikawa
- GO45-Fri-AM-3** Trial of Evaluation of Near-Surface Attenuation by Inversion of S Coda Waves Spectral Ratios Based on Vertical Array Records
Genyuu Kobayashi (JNES) • Yutaka Mamada • Hideaki Tsutsumi
- GO45-Fri-AM-4** Study on a Method for Evaluating Vertical Seismic Ground Motion.
Hideo Kyuke (Takenaka Corporation) • Yoshiyuki Sato • Kikuji Kobayashi •
Ryoichi Tokumitsu
- GO45-Fri-AM-5** Differences between H/V Predominant Frequencies of Strong Earthquake Motions and Microtremors in Shikoku, Japan
Bigyan Upadhyay (Ehime University) • Shinichiro Mori
- GO45-Fri-AM-6** Estimation of Subsurface Velocity Structure Based on Theory of Seismic Interferometry, Using Microtremor H/V Spectrum
Takanori Hirokawa (Kyoto University) • Francisco Sanchez-Sesma •
Shinichi Matsushima • Hiroshi Kawase
- GO45-Fri-AM-7** The Relation between Cross-Correlation of the Long Period Microtremor and the Green's Functions in the Kanto Basin
Takashi Hayakawa (Shimizu Corp.)

**Theme4 Subsurface Structure and Earthquake Ground Motion 10:40-12:10
Conference Room 406**

- GO46-Fri-AM-1** Validating the Formulation of SPAC Coefficient for Multi-Modal Case Derived from Seismic Interferometry
Toshiaki Yokoi (Building Research Institute)
- GO46-Fri-AM-2** 3D Gravity Basement Structure of Mizushima and Tamashima Areas, Kurashiki, Okayama Prefecture, West Japan
Atsushi Furukawa (Sougou System Service Co.) • Keiichi Nishimura • Junpei Akamatsu •
Masao Komazawa
- GO46-Fri-AM-3** Estimation of the Velocity Boundaries in the Fuchu Region by Means of Nonstationary Ray Decomposition Method
Makiko Takagishi (Yokohama City University) • Shigeo Kinoshita
- GO46-Fri-AM-4** Applicability of Deep Underground Structures Estimated by Inversion of Seismic Record
Naoko Umeda (Takenaka Corporation) • Kikuji Kobayashi
- GO46-Fri-AM-5** Comparison of Joint Inversion Methods Using Seismometer Arrays
Calderon Diana (Chiba University) • Shoichi Nakai • Toru Sekiguchi
- GO46-Fri-AM-6** Evaluation of Site Amplification Factors at Strong Ground Motion Observation Sites in Hiroshima Prefecture Based on Spectral Inversion Technique
Junya Takeda (Hiroshima Univ.) • Tatsuo Kanno • Kenji Miura
- GO46-Fri-AM-7** Development of Integrated Geophysical and Geological Information Database for Earthquake Disaster Prevention
Hiroyuki Fujiwara (National Research Institute for Earth Science and Disaster Prevention) •
Masahiro Ooi • Shinichi Kawai • Nobuhiko Toyama

Theme4 Subsurface Structure and Earthquake Ground Motion **14:30-16:10**
Conference Room 406

- GO47-Fri-PM-1** Three-Dimensional Layer Interface Modeling Using Spatial-Temporal Multi-Resolution Inversion and Hybrid-Grid FEM
Pher Errol Quinay (University of Tokyo) • Tsuyoshi Ichimura • Muneo Hori • Madgedara Lalith
- GO47-Fri-PM-2** Large-Scale Ground-Motion Simulation of 2008 Sichuan Earthquake
Takeshi Kurose (Itochu Techno-Solutions Corp.) • Kaoru Kawaji • Satoru Fujihara • Shinichi Akiyama • Hiroaki Yamanaka
- GO47-Fri-PM-3** Two-Dimensional Finite Element Analysis of an Irregular Ground Elasto-Plastic Properties Considering
Shinji Yoshimura (Chiba University) • Shoichi Nakai • Toru Sekiguchi
- GO47-Fri-PM-4** Three-Dimensional Analysis of a Slope Ground Subject to an Incident Surface Wave
Shoichi Nakai (Chiba University) • Hiroto Nakagawa
- GO47-Fri-PM-5** A Realistic-Model Seismogram Synthesis for the Kanto Basin Including Sea Water Based on a Hybrid Boundary Element Method
Zhenghua Qian (Tokyo Institute of Technology) • Hiroaki Yamanaka
- GO47-Fri-PM-6** Site Amplification Mechanism of Ground Motions Adjacent to Submerged Step-Type Underground Structure and Effect of Incident Field
Masayuki Nagano (Tokyo University of Science)
- GO47-Fri-PM-7** Numerical Simulation of Microseisms in Sedimentary Basin Model and Limit of the Application to Irregular Velocity Structures of the Exploration Techniques Based on 1-D Structural Model.
Hirotoshi Uebayashi (Kyoto University Research Reactor Institute) • Hidenori Kawabe • Katsuhiko Kamae
- GO47-Fri-PM-8** Evaluation on the Effect of the Input Earthquake Motion to Seismic Behavior of Soil-Structure System Using Convolutional PML as Boundary Condition
Kunihiko Uno (Penta-Ocean Institute of Technology) • Hiroo Shiojiri

Theme13 Foundation and Underground Structures **16:20-17:40**
Conference Room 406

- GO48-Fri-PM-1** A Study on Seismic Performance of Pile Head Isolated Foundation by Centrifuge Model Tests
Jiho Jang (Shimizu Corporation) • Youichi Taji • Kiyoshi Fukutake • Shouichi Nakai • Hiroyuki Kimata • Shinnichi Nishimura
- GO48-Fri-PM-2** Horizontal Load Tests of Pile Foundation on Contact Column Type Deep Mixing Soils
Shunsuke Tanimoto (Public Works Research Institute) • Tetsuya Kouno • Takayuki Toyoshima • Masahiro Shirato • Toshiaki Nanazawa • Shoichi Nakatani
- GO48-Fri-PM-3** Effects of Pile Rigidity on Seismic Response of Base-Isolated Structure and Bending Moment of Piles during Soil Liquefaction
Takenori Hida (Kyoto University) • Shuji Tamura
- GO48-Fri-PM-4** Evaluation of Sliding Characteristics and Stability of Large-Scale Gabion
Wenzhong Chen (Osaka University) • Ken-Ichi Tokida • Junki Hirayama • Naotoshi Sudou
- GO48-Fri-PM-5** Seismic Performance of Rehabilitated Pipe by the Strength of Infill Material
Yuki Esumi (Kobe University) • Yasuko Kuwata • Shiro Takada
- GO48-Fri-PM-6** Study of Seismic Design of Tunnel Considering the Stiffness of the Cracked Lining
Tsutomu Tanaka (Eight-Japan Engineering Consultants Inc.) • Takeyasu Suzuki

November 20 (Sat.)

National Seismic Hazard Maps for Japan

9:00-11:00

Main Convention Hall

Program numbers with “○” mark are invited lectures.

- OS1-Sat-AM(OS1)-1** ○ National Seismic Hazard Maps for Japan
Hiroyuki Fujiwara (National Research Institute for Earth Science and Disaster Prevention)
- OS1-Sat-AM(OS1)-2** ○ On Long-Period Ground Motion Hazard Maps
Kazuki Koketsu (Earthquake Research Institute, University of Tokyo)
- OS1-Sat-AM(OS1)-3** Comparison of Probabilistic Seismic Hazard Maps for Various Time Origin
Toshihiko Okumura (Shimizu Corporation) • Jun'ichi Miyakoshi • Yutaka Ishikawa • Satoshi Fujikawa • Hiroyuki Fujiwara • Nobuyuki Morikawa • Nobuoto Nojima
- OS1-Sat-AM(OS1)-4** Verification of the Probabilistic Seismic Hazard Maps for Japan
Yutaka Ishikawa (Shimizu Corporation) • Satoshi Fujikawa • Toshihiko Okumura • Jun'ichi Miyakoshi • Hiroyuki Fujiwara • Nobuyuki Morikawa • Nobuoto Nojima
- OS1-Sat-AM(OS1)-5** Comparison of Observed Seismic Intensities on Past Earthquakes with Predicted Ones by the Conventional Method of the National Seismic Hazard Maps for Japan.
Nobuyuki Morikawa (National Research Institute for Earth Science and Disaster Prevention) • Hiroyuki Fujiwara • Yutaka Ishikawa • Toshihiko Okumura • Junichi Miyakoshi • Satoshi Fujikawa • Nobuoto Nojima
- OS1-Sat-AM(OS1)-6** Specifying Strikes of Fault-Unspecified Sources Based on Seismotectonics and Digital Active Fault Map of Japan for Seismic Risk Assessment
Maki Koyama (Kyoto University) • Nobuoto Nojima • Hiroyuki Fujiwara • Nobuyuki Morikawa • Yutaka Ishikawa • Toshihiko Okumura • Junichi Miyakoshi • Satoshi Fujikawa
- OS1-Sat-AM(OS1)-7** Evaluation of 30-Year Probabilities of Fault-Unspecified Inland Crustal Earthquakes
Nobuoto Nojima (Gifu University) • Maki Koyama • Hiroyuki Fujiwara • Nobuyuki Morikawa • Yutaka Ishikawa • Toshihiko Okumura • Jun'ichi Miyakoshi • Satoshi Fujikawa • Norihito Enchi
- OS1-Sat-AM(OS1)-8** Effects of the Peak Ground Motion Due to Deviations of the Cyclic Deformation Properties Using the Seismic Hazard Maps
Akio Yamamoto (Earthquake Disaster Prevention Division of Oyo Corporation) • Yoshiaki Inagaki • Shoichi Nakai • Kazumi Asao

National Seismic Hazard Maps for Japan

11:00-13:00

Main Convention Hall

Program numbers with “○” mark are invited lectures.

- OS1-Sat-AM2(OS1)-9** Study on the United Seismic Hazard Maps and Their Regional Characteristics from Viewpoints of Design Earthquake Motions
Toru Ishii (Shimizu Corporation) • Satoshi Fujikawa
- OS1-Sat-AM2(OS1)-10** An Estimation of Earthquake Death Toll in Wood Frame Building
Tadayoshi Nakashima (Tono Research Institute of Earthquake Science)
- OS1-Sat-AM2(OS1)-11** ○ Guideline for Design Seismic Ground Motion of Infrastructure with Progress of the Research on Strong Ground Motions
Kazuhiko Kawashima (Tokyo Institute of Technology)
- OS1-Sat-AM2(OS1)-12** ○ Application of National Seismic Hazard Map for Japan to Performance-Based Seismic Design of Buildings and Its Problems
Saburoh Midorikawa (Tokyo Institute of Technology)
- OS1-Sat-AM2(OS1)-13** Seismic Risk Map Based on the Probabilistic Seismic Hazard Maps for Japan
Jun'ichi Miyakoshi (Shimizu Corporation) • Toshihiko Okumura • Yutaka Ishikawa • Satoshi Fujikawa • Hiroyuki Fujiwara • Nobuyuki Morikawa • Nobuoto Nojima
- OS1-Sat-AM2(OS1)-14** Seismic Risk Analysis on Building Damages and Human Casualties Based on Seismic Hazard of National Seismic Hazard Maps for Japan
Yasushi Komaru (OYO RMS Corporation) • Satoshi Shimizu • Hiroyuki Fujiwara • Shinichi Kawai • Nobuyuki Morikawa • Hisanori Matsuyama • Yuzuru Hayakawa
- OS1-Sat-AM2(OS1)-15** A Study on Detailed Seismic Risk Assessment for Specific Scenario Earthquakes
Yoe Masuzawa (Engineersing & Risk Services Corporation) • Kaoru Mizukoshi • Ippei Kondou • Hiroyuki Fujiwara • Shinichi Kawai • Nobuyuki Morikawa • Hisanori Matsuyama • Yuzuru Hayakawa

OS1-Sat-AM2(OS1)-16 ○ What Kind of Result From Seismology Map.

Kazuyuki Nakagawa (Jiji Press)

Long Period Earthquake Ground Motion and Safety of Structures 13:30-16:30 Main Convention Hall

Program numbers with “○” mark are invited lectures.

- OS6-Sat-PM(OS6)-1 ○ Long-Period Ground Motion Prediction and Hazard Maps by HERP
Kazuki Koketsu (Earthquake Research Institute, University of Tokyo) • Hiroe Miyake •
Kazuhito Hikima • Takashi Hayakawa • Haruhiko Suzuki • Motofumi Watanabe
- OS6-Sat-PM(OS6)-2 Modeling of Topography Effects of Land Surface and Sea Floor for Long-Period Strong
Motion Simulation with 3D FDM
Hiroschi Takenaka (Kyushu University) • Takeshi Nakamura • Taro Okamoto •
Yoshiyuki Kaneda
- OS6-Sat-PM(OS6)-3 Long-Period Ground Motion Simulation of Tokai-Tonankai-Nankai Coupled Earthquake Using
3-D FEM
Yu Yamamoto (Taisei Corporation) • Chiaki Yoshimura • Shinichi Nanai
- OS6-Sat-PM(OS6)-4 Simulated Earthquake Ground Motion Considering Phase Difference Characteristics -Examples
of Long Period Earthquake Ground Motion-
Takashi Yamane (Nikken Sekkei Ltd.) • Sumio Nagahashi
- OS6-Sat-PM(OS6)-5 Prediction and Validation of Waveforms of Long-Period Strong Motions for Hypothetical
Subduction-Zone Earthquakes Using Empirical Regression Relations
Toshimi Satoh (Ohsaki Research Institute) • Izuru Okawa • Takao Nishikawa •
Toshiaki Sato • Matsutaro Seki • Yoshiaki Hisada
- OS6-Sat-PM(OS6)-6 Model Tests on Sloshing in a Cylindrical Liquid Storage Tank with a Single Deck Type
Floating Roof
Takashi Nagaya (Meijo University) • Tetsuya Matsui
- OS6-Sat-PM(OS6)-7 A Hybrid Analytical and Finite Element Approach for Nonlinear Sloshing in a Cylindrical
Liquid Storage Tank with a Floating Roof
Tetsuya Matsui (Meijo University) • Takashi Nagaya
- OS6-Sat-PM(OS6)-8 Damage Evaluation in Steel Structural High Rise Building to Long-Period Ground Motion
Hiroyasu Nishii (Tokyo University of Science) • Haruyuki Kitamura
- OS6-Sat-PM(OS6)-9 Review on Current Seismic Design of Lifts in Japan and Some Specific Issues on Mitigation of
Damages Due to Long-Period Earthquake Ground Motions
Satoshi Fujita (Tokyo Denki University) • Yuji Sekiya • Takeshi Miyata
- OS6-Sat-PM(OS6)-10 Development of Jishin-The-Vuton, the Portable 3D Earthquake Simulator
Yasuhiro Taguchi (Tamagawa University) • Roh Se-Gon • Yusuke Nishida •
Yasushi Fukuda • Masayuki Matsudaira • Minoru Yoshida • Ryusuke Yamaguchi •
Saburoh Midorikawa • Shigeo Hirose
- OS6-Sat-PM(OS6)-11 E-Defense Tests for a High-Rise Building
Takuya Nagae (NIED) • Kunio Fukuyama • Koichi Kajiwara • Takahito Inoue •
Masayoshi Nakashima • Taiki Saito • Haruyuki Kitamura • Nobuo Fukuwa

Lessons and Learns from Iwate Miyagi Nairiku Earthquake in 2008 9:00-10:15 Convention Hall 200

- OS2-Sat-AM(OS2)-1 Sliding Block Analysis Generated in the Aratosawa Dam Upstream Part and the Consideration
Motoki Kazama (Tohoku University) • Tetsushi Matsui • Tomohiro Mori
- OS2-Sat-AM(OS2)-2 Liquefaction Damage during the 2008 Iwate Miyagi Inland Earthquake
Akira Yamaguchi (Tohoku Gakuin University) • Tomonori Hino • Nozomu Yoshida •
Yoshio Tobita
- OS2-Sat-AM(OS2)-3 Soil Properties of Failed Earthmaterials in 2008 Iwate-Miyagi Inland Earthquake
Hiroaki Kabuki (Tohoku University) • Yusuke Hiratuka • Shingo Sato • Motoki Kazama
- OS2-Sat-AM(OS2)-4 Damage of RC Building and Ground Response Characteristics in the 2008 Iwate-Miyagi
Nairiku Earthquake
Kazuya Mitsuji (Yamagata University) • Kazuto Matsukawa • Masaki Maeda

Lessons and Learns from Iwate Miyagi Nairiku Earthquake in 2008 10:15-12:15 Convention Hall 200

- OS2-Sat-AM2(OS2)-5 Comparisons between the 2008 Iwate-Miyagi Nairiku Earthquake and the 2004 Niigata-
Chuetsu Earthquake in Terms of Strong Motions
Makoto Kamiyama (Tohoku Institute of Technology) • Tadashi Matsukawa

- OS2-Sat-AM2(OS2)-6** Tree Tilt Around Surface Rupture of the 2008 Iwate-Miyagi Inland Earthquake, Revealed with Terrestrial LiDAR Survey
Masayuki Yoshimi (National Institute of Advanced Industrial Science and Technology) • Tadashi Maruyama • Shinji Toda
- OS2-Sat-AM2(OS2)-7** A Realistic Model to Simulate the Extreme Acceleration Phases Observed at the Kik-Net IWTH25 Station during the 2008 Iwate-Miyagi Nairiku Earthquake in Japan
Tatsuo Ohmachi (Tokyo Institute of Technology) • Shusaku Inoue • Kenichi Mizuno • Masato Yamada
- OS2-Sat-AM2(OS2)-8** Strong Motion Estimation in the Maturube Bridge and Ichinonohara for the 2008 Iwate-Miyagi Nairiku Earthquake Based on Empirical Site Amplification and Phase Effects
Yoshiya Hata (Nippon Koei Co.,Ltd.) • Susumu Nakamura • Atsushi Nozu • Masayuki Yamada • Koji Hada
- OS2-Sat-AM2(OS2)-9** Strong Motion Estimation in the Damaged Sites of the Ichihazama River Area for the 2008 Iwate-Miyagi Nairiku Earthquake Based on Empirical Site Amplification and Phase Effects
Susumu Nakamura (Nihon University) • Yoshiya Hata • Atsushi Nozu
- OS2-Sat-AM2(OS2)-10** Long Period Ground Motion in Ohsaki Basin, Miyagi Prefecture during the 2008 Iwate-Miyagi Nairiku Earthquake
Shunichi Kataoka (Hirosaki University) • Ayaka Takashima

Business Continuity Planning and District Continuity Planning **13:30-16:00** **Convention Hall 200**

Program numbers with “○” mark are invited lectures.

- OS5-Sat-PM(OS5)-1** ○ Evolution of Japanese Corporate Disaster Management to Business Continuity Planning (BCP) and to District-Wide BCP(DCP)
Satoru Nishikawa (Ministry of Land, Infrastructure, Transport and Tourism)
- OS5-Sat-PM(OS5)-2** Evaluation Method of Effective Earthquake Countermeasures in Business Continuity Plan
Michiyo Soejima (Obayashi Corporation) • Kimiro Meguro
- OS5-Sat-PM(OS5)-3** Spread Activity of BCP by Cooperation of University and Prefecture
Susumu Nakano (The University of Tokushima) • Takako Kiba • Hiroshi Anzai
- OS5-Sat-PM(OS5)-4** Investigation of the Anchored Office Furniture in a High-Rise Building for the Injury Estimation.
Tomohiro Kubo (Kogakuin University) • Yoshiaki Hisada • Masahiro Murakami
- OS5-Sat-PM(OS5)-5** ○ District Continuity Management Plan that is Carried in the Area where there are a Lot of Hospitals
Shigeaki Mori (Urban Disaster Research Institute)
- OS5-Sat-PM(OS5)-6** ○ Study on the Measure Against Victims Unable to Return Home and the Disaster Medical System in the Central Business District around Shinjuku Station, Tokyo
Masahiro Murakami (Kogakuin University) • Yoshiaki Hisada
- OS5-Sat-PM(OS5)-7** Actions to Spread Business Continuity Plan of Construction Industries in Shikoku
Kenichi Torii (Ehime University) • Susumu Nakano • Kunio Ohtoshi • Wataru Shiraki • Tuyoshi Koike • Kenji Okazaki
- OS5-Sat-PM(OS5)-8** ○ Current State and Problem of the Business Continuity Plan in Construction Companies
Norio Harada (Disaster Prevention Research Group) • Katsumi Asahi • Taku Mikami • Yoza Goto • Harumi Yashiro
- OS5-Sat-PM(OS5)-9** Risk Management on Business Interruption of Supply Chain System Considering Simultaneous Supply
Seiichiro Fukushima (Tokyo Electric Power Services) • Harumi Yashiro • Hiromichi Yoshikawa

Theme15 Experiment and Observation of Structures, Structural Members and Components **9:00-10:30** **Conference Room 201**

- GO9-Sat-AM-1** Dynamic Properties of Power Station Buildings Based on Earthquake Observations.
Rika Iwaki (Chubu Electric Power Co., Inc.) • Mitsuo Tuzuki • Hiromitsu Ookubo • Keiji Yamamoto • Nobuo Fukuwa • Masafumi Mori
- GO9-Sat-AM-2** Structural Modeling of Soil-Structure Interaction System Based on Forced Vibration Tests under High Density Observation
Motonobu Umino (Nagoya University) • Jun Tobita • Nobuo Fukuwa • Hiroaki Kojima

- GO9-Sat-AM-3** Vibration Characteristics of Reinforced Concrete and Steel Structures in the Campus of College of Industrial Technology, Nihon University, Determined by the Earthquake and Microtremors Observation
Hiroki Kaneko (Nihon University) • Kazuhiro Suka • Tatuyuki Morii • Noritaka Morohashi • Kazuyoshi Kudo • Tomoyuki Sakurada
- GO9-Sat-AM-4** Characteristic of Dismantling High-Rise Building Based on the Experiment of Continuous Observation
Kenshiro Imaeda (Nagoya University) • Jun Tobita • Nobuo Fukuwa • Harumi Yashiro
- GO9-Sat-AM-5** Vibration Characteristics of an Overhung RC Building with Symmetric Plan
Takumi Toshinawa (Program in Architecture, Meisei University)
- GO9-Sat-AM-6** Study on Dynamic Behaviour of Building Which Has Long and Slender Configuration -Part 1
Vibration Characteristic of Earthquake Records-
Shin Koyama (Building Research Institute) • Mitoshi Yasui • Masanori Iiba
- GO9-Sat-AM-7** Study on Dynamic Behavior of Building Which Has Long and Slender Configuration -Part2
Simulation Analyses -
Mitoshi Yasui (Toda Corporation) • Masanori Iiba • Morimasa Watakabe • Shin Koyama • Takeshi Yamamoto

Theme15 Experiment and Observation of Structures, Structural Members and Components

10:40-12:30

Conference Room 201

- GO10-Sat-AM-1** Cyclic Loading Test of RHS-Columns under Bi-Axial Bending
Satoshi Yamada (Tokyo Institute of Technology) • Yuko Shimada
- GO10-Sat-AM-2** Post-Buckling and Deteriorating Behavior of RHS Columns under Cyclic Loading
Takanori Ishida (Tokyo Institute of Technology) • Yuko Shimada • Satoshi Yamada
- GO10-Sat-AM-3** Shear Resistance of Steel Exposed Type Column Base with Tension Brace
Hayato Asada (Tokyo Institute of Technology) • Shoichi Kishiki • Satoshi Yamada
- GO10-Sat-AM-4** Seismic Resistance Design Method of Steel Structure Considering Brittle Fracture
Yuichiro Arai (Nihon University) • Toshio Hannuki • Hiroshi Akiyama
- GO10-Sat-AM-5** Mechanical Behavior of Headed Studs Clusters in Steel Fiber Reinforced Cementitious Composite Slab
Yao Cui (Tokyo Institute of Technology) • Yunbiao Luo • Toru Tai • Shuhai Song • Masayoshi Nakashima
- GO10-Sat-AM-6** Estimation of Tangent Stiffness Matrix of Structures with Bilinear Springs Using Minimal Update Approach
Koji Nishikawa (Kyoto University) • Akira Igarashi
- GO10-Sat-AM-7** Post-Buckling Behavior of Steel Plate Elements under Various Cyclic Loadings
Yu Jiao (Tokyo Institute of Technology) • Satoshi Yamada • Shoichi Kishiki
- GO10-Sat-AM-8** Research on Energy Absorption Performance Improvement of Buckling-Restrained Brace Contained Steel Plate Concrete Member
Hiroshi Nonaka (Meiji Univ) • Makoto Watanabe • Masahito Kobayashi
- GO10-Sat-AM-9** A Study on Seismic Retrofitting Method Using Outer CES Frames
Junji Shi (Osaka University) • Chunyang Liu • Takashi Taguti • Takashi Kamiya • Hiroshi Kuramoto

Theme11 Landslide and Slope Failure

9:00-11:00

Conference Room 202A

- GO17-Sat-AM-1** Trial for Establishment of Evaluation Method of Seismic Safety for Rock Slope
Masahiro Shinoda (Railway Technical Research Institute) • Kenji Watanabe • Keita Abe • Takayoshi Nishimura • Kimitoshi Sakai • Masaaki Murata • Hidetaka Nakamura • Susumu Nakamura
- GO17-Sat-AM-2** Study of Energy on Seismically Induced Slope Failure and Flow Mechanism by Case History
Keisuke Koizumi (Chuo University) • Takaji Kokusho • Tomohiro Ishizawa • Hiroki Sasaki
- GO17-Sat-AM-3** Analysis on Failure Modes of a Road Structure Due to a Slope Failure during an Earthquake
Toshiaki Sakurai (University of Tsukuba) • Gaku Shoji
- GO17-Sat-AM-4** Topographical, Geological and Seismological Effects on Susceptibility of Earthquake Induced Landslides
Nagazumi Takezawa (Public Works Research Institute) • Taro Uchida • Keiji Tamura • Keisuke Suzuki • Shin_Ichi Honma • Yoko Kobayashi • Masakatsu Miyajima

- GO17-Sat-AM-5** Relation to Slope Failure and Periodical Band of Seismic Ground Motion
Kazuhiro Kanda (University of Tsukuba) • Yuki Sakai
- GO17-Sat-AM-6** Risk Assessment of Earthquake-Induced Landslide in Padang, Indonesia Using Remote Sensing and GIS Interfacing Techniques
Saifullizan Mohd Bukari (Chiba University) • Fumio Yamazaki
- GO17-Sat-AM-7** Tectonic Deformation Induced in the Active Folding Zone in 2004 Mid-Niigata Prefecture Earthquake and Its Correlation with Landslide Distribution
Yu Zhao (University of Tokyo) • Kazuo Konagai
- GO17-Sat-AM-8** Post Formation Behavior and Flood Damage from Partial Breaching of Hattian Bala Landslide Dam
Ahsan Sattar (University of Tokyo) • Kazuo Konagai • Takashi Kiyota • Takaaki Ikeda
- GO17-Sat-AM-9** Strength Characteristic of Cemented Soil in Cyclic Loading Ring Shear Test
Motoyuki Suzuki (Yamaguchi University) • Kimihiro Fujii • Hiroshi Takahara
- GO17-Sat-AM-10** Estimation of Potential Slip Surface of Existing Landslide by Microtremor Measurement.
Hidenori Otake (Ehime University) • Shinichiro Mori

Theme11 Landslide and Slope Failure

11:10-12:00

Conference Room 202A

- GO18-Sat-AM-11** Model Experiment on Threshold Energy of Slope Failure Evaluation during Earthquakes
Yumika Yamamoto (Chuo University) • Takaji Kokushou • Tomoyuki Ishizawa • Tomoyuki Koyanagi • Yuuki Hase
- GO18-Sat-AM-12** A Basic Study on Travelling Distance Caused by Earthquake-Induced Rock Slope Failure Using 3D DEM
Makoto Ishimaru (Central Research Institute of Electric Power Industry) • Hitoshi Tochigi • Tadashi Kawai • Ikumasa Yoshida • Hitoshi Nakase • Tetsuya Iwamoto
- GO18-Sat-AM-13** Key Parameters Controlling Movements and Deformations of Landslide Masses in Earthquakes and Discussions for Coping with Landslide Disasters
Muneyoshi Numada (Institute of Industrial Science(IIS), University of Tokyo) • Kazuo Konagai
- GO18-Sat-AM-14** Sph Simulation of Earthquake-Induced Slope Failure
Mori Toyoda (University of Tsukuba) • Takeshi Iwamoto • Yasuo Yamada • Takashi Matsushima

Theme28 Real Time Disaster Mitigation System, Early Warning System, and Ground Motion Observation System, and their applications

9:00-10:00

Conference Room 202B

- GO25-Sat-AM-1** Development of a Real-Time Evacuation Management System Using Active Radio Frequency Identification
Akihiro Shibayama (Tohoku University) • Masahiro Murakami • Yoshiaki Hisada • Kenichi Takanashi • Takashi Suematsu • Susumu Ohno
- GO25-Sat-AM-2** Development of Real-Time Noise Identification Method that Considers Influence of Electromagnetic Noise
Shinji Sato (Railway Technical Research Institute) • Shunroku Yamamoto • Shunta Noda
- GO25-Sat-AM-3** Correction of P Wave Magnitude Depending on Lapse Time -Application to Earthquake Early Warning-
Mitsuyuki Hoshiba (Meteorological Research Institute) • Kazuhiro Iwakiri • Kazuo Ohtake
- GO25-Sat-AM-4** Development of Real-Time Disaster Information Collection System Using PC Built-In Sensors
Tohru Okamoto (Tohoku University) • Akihiro Shibayama • Susumu Ohno
- GO25-Sat-AM-5** Successive Update of Estimated Building Damage Ratios Based on Quick Survey Data
Sachie Hoshi (Chiba University) • Yoshihisa Maruyama • Fumio Yamazaki

Theme22 Seismic Design of Structures and Seismic Design Codes

10:10-12:10

Conference Room 202B

- GO26-Sat-AM-1** Quantitative Evaluation of Information of Ground Motion Set as Design Ground Motion
Takashi Miyamoto (The University of Tokyo) • Riki Honda
- GO26-Sat-AM-2** “Evidence-Based Design” - Its Definition and Related Problems
Atsushi Nozu (Port and Airport Research Institute) • Koji Ichii
- GO26-Sat-AM-3** Structural Planning and Seismic Design Value of High-Rise RC Buildings
Tomofusa Akita (Chiba University) • Takeshi Ioi • Takuya Eda • Kotaro Kurimoto • Nobuyuki Izumi

- GO26-Sat-AM-4** Application of Seismic Reinforcement Method of Road Embankments with Use of Artificial Base Structure
Yuki Nomura (Osaka University) • Ken-Ichi Tokida • Naoki Tatta
- GO26-Sat-AM-5** Occurrence Characteristics of Secondary Sliding at Road Embankments and Its Evaluation Method
Kouichi Teranishi (Osaka University) • Ken-Ichi Tokida • Shouta Suyama
- GO26-Sat-AM-6** Study on Relationship between Safety Factor and Displacement by Sliding of Road Embankments during Earthquakes
Ken-Ichi Tokida (Osaka University) • Kouichi Teranishi
- GO26-Sat-AM-7** On Countermeasures Against Damage Concentration of Weak-Beam Type Steel Frames with Fixed Column Bases.
Yoshinobu Yanagita (Tokyo Bldg-Tech Center Co. Ltd) • Toshio Hannuki • Hiroshi Akiyama
- GO26-Sat-AM-8** Estimation of Stress and Collapse Mechanism for Rc Frame Structures Using Nonlinear Static Analysis
Masanobu Aiba (Chiba University) • Keiichi Kiya • Tomofusa Akita • Nobuyuki Izumi
- GO26-Sat-AM-9** A Study on Combined Super-and Sub-Structures and Model of a Soil-Pile System for Seismic Resistance Evaluation of Pile Foundation in RC Structures
Keiichi Kiya (Chiba University) • Masanobu Aiba • Tomofusa Akita • Nobuyuki Izumi
- GO26-Sat-AM-10** Study on Shear Strength Failure Mode of RC Shear Walls with Multi-Openings Based on Fem Parametric Analysis
Masato Sakurai (Osaka University) • Tomoya Matsui • Hiroshi Kuramoto

Theme9,10 Nonlinear Ground Response and Failure, Liquefaction and Lateral Flow of Ground **9:00-10:30**
Conference Room 303

- GO33-Sat-AM-1** Ground Motion Characteristics of Horizontal and Vertical Motions at the Kik-Net Iwth25 Station
Kimiyouki Asano (Kyoto University) • Miho Kimura • Tomotaka Iwata
- GO33-Sat-AM-2** Estimation of Nonlinear Characteristics of Surface Soil Based on Strong Ground Motion Records
Tatsuo Kanno (Hiroshima University) • Kenji Miura
- GO33-Sat-AM-3** Nonlinear Soil Properties Inferred from Downhole Array Recording of the Main-and After-Shocks of 2007 Niigataken Chuetsu-Oki Earthquake
Yoshiaki Ibaraki (Tokyo Institute of Technology) • Kohji Tokimatsu
- GO33-Sat-AM-4** On the S-D Model Parameters of Anegasaki Sand Containing Fraction
Toshiyuki Kamata (Chemical Grouting) • Ryo Kato • Takeshi Ishii
- GO33-Sat-AM-5** Micromechanical Study on Liquefaction and Resolidification of Granular Material
Takehisa Hirao (University of Tsukuba) • Takashi Matsushima • Yasuo Yamada
- GO33-Sat-AM-6** Triaxial Test for Aging Effect on Liquefaction Strength Versus Cone Resistance for Sands Containing Non-Plastic Fines
Yohta Nagao (Chuo University) • Takaji Kokusho • Fumiki Ito • Yoshiki Morimoto
- GO33-Sat-AM-7** Basic Experiment Concerning Bearing Capacity of the Liquefaction Ground under the Asphalt Pavement
Kazuhiro Yamada (Fukken Co., Ltd.) • Takahiro Sugano • Hiroshi Nakazawa • Teruhisa Fujii

Theme10 Liquefaction and Lateral Flow of Ground **10:40-12:20**
Conference Room 303

- GO34-Sat-AM-8** Applicability of Tirechips-Derived Geo-Material on Quay Wall's Stability during Earthquakes
Saki Miyota (Ibaraki University) • Kazuya Yasuhara • Satoshi Murakami • Hideo Komine • Masayuki Hyodo • Takashi Kaneko
- GO34-Sat-AM-9** Experimental Studies on Prevention of Large Ground Displacement Induced by Quaywall Movements
Ikki Kato (Waseda University) • Masanori Hamada • Shunichi Higuchi • Ryohei Imanaka
- GO34-Sat-AM-10** Design Method of Compaction Grouting in Low Fines Content Sand
Keita Takada (Compaction Grouting Society of Japan) • Hiroyuki Yamazaki • Junichi Takemura • Kouhei Obara • Mutsuo Oosato • Akio Ikeuchi • Yoshiaki Taira • Teruhisa Fujii

- GO34-Sat-AM-11** Increase in Liquefaction Resistance of Ground Due to Log Piling
Atsunori Numata (Tobishima Corporation) • Hiroshi Motoyama • Ikuo Momohara • Hirofumi Nagao • Masaki Harada • Masaho Yoshida
- GO34-Sat-AM-12** Dynamic Centrifuge Model Tests on Lattice-Shaped Ground Improvement as a Liquefaction Countermeasure for River Levee
Susumu Nakajima (Public Works Research Institute) • Shunsuke Tanimoto • Yoshitaka Nakata • Tetsuya Sasaki
- GO34-Sat-AM-13** Mitigation of Existing Structure Settlement by Sheet Pile Walls during Earthquake
Yu Motohashi (Ibaraki University) • Kazuya Yasuhara • Hideo Komine • Satoshi Murakami
- GO34-Sat-AM-14** Application Piled-Raft Foundation to Oil Storage Tank on Liquefiable Loose Sand
Shinichiro Imamura (Nishimatsu Construction Co., Ltd) • Takayuki Hirano • Takashi Yagi • Jiro Takemura
- GO34-Sat-AM-15** Model Test and Field Test on Unsaturation of Sandy Ground by Injecting Micro Bubble Water
Akihiko Uchida (Takenaka Corporation) • Takaaki Shimizu • Munenori Hatanaka

Theme16 Seismic Response of Structures and Facilities **9:00-10:40**
Conference Room 405

- GO41-Sat-AM-18** Seismic Behavior Analyses of Super-Multi-Span Continuous Isolated Bridge Using the Real Earthquake Records
Joonho Choi (Public Works Research Institute) • Toshihiro Usui • Junichi Hoshikuma • Guangfeng Zhang
- GO41-Sat-AM-19** Analytical Idealization of Local Buckling of Longitudinal Bars for Analyzing the Seismic Performance of RC Columns
Shota Ichikawa (Tokyo Institute of Technology) • Tomohiro Sasaki • Kazuhiko Kawashima
- GO41-Sat-AM-20** An Evaluation Method of Residual Seismic Capacity for RC Structures with Total Collapse Mechanism
Surong Bao (Tohoku University) • Kazuto Matukawa • Masaki Maeda
- GO41-Sat-AM-21** Practical Nomogram for Bridge Designing Based on the Fault-Crossing Angle
Ayako Anzai (Chuo Fukken Consultants) • Yoshitaka Murono • Tomohiro Kawanishi • Katsuaki Konno
- GO41-Sat-AM-22** Earthquake Response Analysis Based on Earthquake Record for the Bridge with Horizontal Force Distributed Structure
Manabu Matsuhashi (National Institute for Land and Infrastructure Management) • Shojiro Kataoka • Susumu Takamiya
- GO41-Sat-AM-23** Fundamental Study on the Variability of Structural Response Due to the Uncertainty of Phase Spectrum
Kimitoshi Sakai (Railway Technical Research Institute) • Yoshitaka Murono
- GO41-Sat-AM-24** Fundamental Consideration on the Input in the Complete Collapse Test
Yuko Shimada (Chiba Univ.) • Satoshi Yamada
- GO41-Sat-AM-25** Distribution of Residual Stress on Low-Rise Steel Moment-Resisting Frames after Strong Earthquake Motions
Takumi Ito (Tokyo University of Science) • Takashi Iwabuchi

Theme21 Nonstructural Members and Equipments **10:50-11:50**
Conference Room 405

- GO42-Sat-AM-1** Study on Collapse Behavior of Suspended Ceiling of Large Space Structures Subjected to Earthquake Excitation
Part1: Investigation of Oscillatory Properties of School Gymnasiums
Morimasa Watakabe (Toda Corporation) • Yoshio Wakiyama • Shinsuke Inai • Taku Ishioka • Tadashi Ishihara • Takashi Hasegawa • Koichi Morita
- GO42-Sat-AM-2** Study on Collapse Behavior of Suspended Ceiling of Large Space Structures Subjected to Earthquake Excitation
Part2: Shaking Table Test of Suspended Ceiling
Yoshio Wakiyama (Building Research Institute) • Morimasa Watakabe • Masanobu Tohdo • Shinichi Iizuka • Shinsuke Inai • Shigemitsu Takai • Motoi Kanagawa • Tadashi Ishihara • Takashi Hasegawa

- GO42-Sat-AM-3** Study on Collapse Behavior of Suspended Ceiling of Large Space Structures Subjected to Earthquake Excitation
Part3: Shaking Table Test and Analysis of Scale Models of Gymnasium Structures
Taku Ishioka (Toda Corporation) • Tadashi Ishihara • Morimasa Watakabe • Shinsuke Inai • Yoshio Wakiyama
- GO42-Sat-AM-4** Shaking Table Test of Sprinkler Systems on Level-1 Scale Earthquake
Shinichi Iizuka (Nishimatsu Construction) • Yoshio Wakiyama • Morimasa Watakabe • Shigemitsu Takai • Akira Oosakaya • Motoi Kanagawa • Shinsuke Inai • Motohiko Kuwa • Mamoru Kouno • Ichiro Hagiwara
- GO42-Sat-AM-5** Fragility Curves for Building Equipments Based on Damage Survey Data Due to 1995 Hyogoken-Nambu Earthquake
Mika Kaneko (Shimizu Corporation) • Hiroshi Kambara

Evaluation of seismic safety capacity of aged piping system for nuclear power plants

13:30-14:30

Conference Room 405

Program numbers with “○” mark are invited lectures.

- OS4-Sat-PM(OS4)-1** 3-D Shaking Table Test and the Seismic Design Criteria for Thinned Wall Piping
Yuji Sato (IHI Corporation) • Akihito Otani • Izumi Nakamura • Koji Takahashi • Hajime Hajime
- OS4-Sat-PM(OS4)-2** Vibration Response Characteristics for Thinned Wall Piping System
Hajime Takada (Yokohama National University) • Shun Nakazawa • Izumi Nakamura • Akihito Otani • Yuji Satoh • Koji Takahashi • Tadahiro Shibutani
- OS4-Sat-PM(OS4)-3** Effects of Cyclic Overload on Low Cycle Fatigue Behaviors of Elbow Pipe with Local Wall Thinning
Koji Takahashi (Yokohama National University) • Kyohei Sato • Kanako Ogino • Kotoji Ando • Yoshio Urabe
- OS4-Sat-PM(OS4)-4** ○ Estimation of Seismic Safety Margin of Aged Piping Systems by Shake Table Tests
Izumi Nakamura (National Research Institute for Earth Science and Disaster Prevention) • Akihito Otani • Yuji Sato • Hajime Takada • Koji Takahashi • Tadahiro Shibutani

Theme12 Ground Structures and Dams

9:00-11:00

Conference Room 406

- GO49-Sat-AM-1** Relation between Safety Factor during Earthquake and Residual Deformation for River Dikes
Kazuhiro Araki (Chemical Grouting) • Takeshi Ishi • Kunio Saitoh
- GO49-Sat-AM-2** Study on Effectiveness of Soil Improvement of Levee Using Observed Records
Shojiro Kataoka (National Institute for Land and Infrastructure Management) • Shunsuke Tanimoto • Susumu Nakajima • Manabu Matsuhashi • Susumu Takamiya
- GO49-Sat-AM-3** Evaluation on the Seismic Response Characteristics of a Road Embankment Based on the Earthquake Observation Record
Susumu Shibao (Hiroshima University) • Yoshiya Hata • Koji Ichii • Ken-Ichi Tokida • Koichiro Takezawa • Masayuki Yamada • Junji Mitsushita • Keigo Koizumi
- GO49-Sat-AM-4** Damage Evaluation in the Noto Airport for 2007 Noto Hanto Earthquake Based on the 3D Non-Linear FEM Analysis Method
Yoshiya Hata (Nippon Koei Co.,Ltd.) • Koji Ichii • Atsushi Nozu
- GO49-Sat-AM-5** Simulation of Damage Pattern of Soil Embankments by Applying the Constitutive Model Including a Tensile Failure
Mitsuhiko Nakata (Kyoto University) • Sumio Sawada • Hiroyuki Goto
- GO49-Sat-AM-6** Quantitative Evaluation of Effects by Underground Water Table on Sliding Stability of Embankments
Junki Hirayama (Osaka University) • Ken-Ichi Tokida • Kouichi Teranishi
- GO49-Sat-AM-7** Evaluation on the Slope Failure Range Due to Earthquake Using the Monte Carlo Simulation
Koji Ichii (Hiroshima University) • Yoshiya Hata • Ken-Ichi Tokida
- GO49-Sat-AM-8** Dynamic Centifuge Model Test on Rein-Forced Road Embankment
Tadao Enomoto (Incorporated Administrative Agency Public Works Research Institute) • Tetsuya Sasaki
- GO49-Sat-AM-9** Seismic Response Analysis on Large Arch Dam Used about 50 Years -Estimation about Water-Storage Performance of Arch Dam in Level 2 Input Ground Motion-
Jun Matsui (Central Research Institute Electric Power Industry) • Tatsuo Nishiuchi • Nobuyuki Ookuma • Hiroki Hatamoto

GO49-Sat-AM-10 Earthquake Response Analysis of Large Arch Dam Existed about 50years Ago
- Contraction Joints Behavior and Damage on Earthquake, Stability after Earthquake -
Tatsuo Nishiuchi (Central Research Institute of Electric Power Industry) • Jun Matsui •
Nobuyuki Ohkuma • Hiroki Hatamoto

Theme12 Ground Structures and Dams

11:10-12:30
Conference Room 406

- GO50-Sat-AM-1** Shear Capacity of the Unburned Brick Masonry Wall
Takuya Asamitsu (The University of Tokyo) • Kaori Fujita
- GO50-Sat-AM-2** A Limit Equilibrium-Based Seismic Stability Analysis and Design of Embankment Slopes with a Sheet Pile
Jing-Cai Jiang (The University of Tokushima) • Yukimasa Kanda • Susumu Nakano
- GO50-Sat-AM-3** Shaking Table Test on Dynamic Behavior of Caisson Type Quay Walls with Ground Anchor for Seismic Reinforcement
Makoto Yoshida (Penta-Ocean Institute of Technology) • Souich Tashiro • Kazuya Gouda • Osamu Kiyomiya
- GO50-Sat-AM-4** Study on Sesimic Resistance Performance and Sismic Retrofitting of Small Dams for Irrigation by Dynamic Analysis
Yoichi Hayashida (National Institute for Rural Engineering) • Susumu Masukawa • Isamu Asano • Hidekazu Tagashira
- GO50-Sat-AM-5** Shaking Table Test and DEM Analysis of a Concrete Gravity Dam with Penetrated Cracks
Tomoya Iwashita (Hydraulic Engineering Research Group) • Yoshiaki Fujitsuka • Toru Kirinashizawa • Hiroyuki Kojima • Yoshikazu Yamaguchi
- GO50-Sat-AM-6** Relationship of Predominant Periods of Existing Irrigation Dams between from Microtremor Measurement Estimation Based on Surface Wave Exploration
Masaya Furukawa (Ehime University) • Shinichiro Mori