

# Poster Session

## November 18 (Thu.)

10:00-18:00 (Core Time 12:30-13:00,17:30-18:00)

### Main Convention Hall

- PS1-Thu-1** Damage of Reinforced Concrete Buildings during the 1923 Great Kanto Earthquake Based on Dynamic Characteristics  
Shoji Hayashi (Shimizu Corp.) • Nobuo Fukuwa • Junichi Miyakoshi
- PS1-Thu-2** Discussion with the Vulnerability Function by Using the Seismic Damage Data Caused 2004 Chuetsu Earthquake.  
Yasumasa Nakajima (Institute of Science and Technology, Kanto-Gakuin University) • Norio Abeki • Yuya Makino
- PS1-Thu-3** Building Damage Distribution of the 2006 Central Java, Indonesia, Earthquake Detected from Satellite Optical Images  
Hiroyuki Miura (Tokyo Institute of Technology) • Saburoh Midorikawa • Norman Kerle
- PS1-Thu-4** Relationship of Criteria for Damage to Buildings in Chuetsu and Chuetsu-Oki Earthquake in Niigata  
Yukiko Nakamura (Niigata University)
- PS1-Thu-5** Damage Material and Ground Motion Level of the 1923 Kanto Earthquake - Activities of Damage Data Obtained from the Original Documents -  
Takafumi Moroi (Kobori Research Complex) • Masayuki Takemura
- PS1-Thu-6** Application of Logic-Tree Analysis to Uncertainties in Earthquake Magnitude Estimation for a Long Active Fault System  
Kozo Oonishi (Okayama University) • Takashi Kumamoto
- PS1-Thu-7** Validity of Evaluation Method for Fault Parameters Based on Survey of Inland Active Faults  
Yutaka Mamada (Japan Nuclear Energy Safety Organization) • Shizuo Noda • Jyun' ichi Uchida • Toshifumi Imaizumi • Tomomi Okada • Kin' ya Nishigami • Atsushi Miwa
- PS1-Thu-8** Broadband Source Models for Recent Large Earthquakes - Characteristics of Slip and Stress Distributions -  
Yoshiaki Shiba (CRIEPI) • Ryoichi Tokumitsu • Isao Nishimura
- PS1-Thu-9** Effect of Asperity Estimation Errors on Strong Ground Motion Prediction  
Takashi Hirai (Nagoya University) • Hirohito Takahashi • Nobuo Fukuwa • Takeshi Sagiya
- PS1-Thu-10** An Earthquake Catalog of the IISEE, BRI for Recent Large Events in the World  
Tatsuhiko Hara (IISEE, Building Research Institute) • Nobuo Hurukawa • Toshiaki Yokoi • Yushiro Fujii • Naoki Nishimura • Yuji Yagi
- PS1-Thu-11** Source Rupture Process of the 2009 Suruga-Bay Earthquake Considering Complex Fault Geometry  
Wataru Suzuki (National Research Institute for Earth Science and Disaster Prevention) • Shin Aoi • Haruko Sekiguchi
- PS1-Thu-12** The Influence of Stress Drop of Seismic Sources on the Variance of Ground Motions  
Masaharu Sugahara (Tokyo Electric Power Services Co., Ltd.) • Tomiichi Uetake
- PS1-Thu-13** Anomalous Strong Ground Motion Features of the Largest Aftershock of the 2003 Tokachi-Oki Earthquake  
Takahiro Maeda (University of California, Santa Barbara) • Nobuo Takai • Tsutomu Sasatani
- PS1-Thu-14** Conserved Quantity of Elastic Waves in Multi-Layered Media  
Hiroyuki Goto (Kyoto University) • Toshiyuki Hirai • Sumio Sawada
- PS1-Thu-15** Determination of Subsurface Structure of Daisen South-West Area by Gravity and Microtremor Surveys  
Tatsuya Noguchi (Tottori University) • Eiji Nakaya • Kensuke Iwahori • Yuta Sugihara • Takao Kagawa
- PS1-Thu-16** Estimation of Three-Dimensional Boundary Shape of the Osaka Sedimentary Basin Based on Waveform Modeling  
Asako Iwaki (Kyoto University) • Tomotaka Iwata
- PS1-Thu-17** Comparisons with Simulations Used by PS Logging Data and Recorded Earthquake Motions, and Observed Microtremors at Two Sites In Mitsuke City, Niigata Prefecture.  
Norio Abeki (Dept. of Architecture, College of Engineering, Kanto-Gakuin University) • Yuya Makino • Yasumasa Nakajima • Takayoshi Sasagawa

- PS1-Thu-18** Estimation of Deep Subsurface Structure in the Kashiwazaki-Kariwa NPS by Using Joint Inversion of Phase Velocity and Receiver Function  
Hiroaki Sato (CRIEPI) • Sadanori Higashi • Tomiichi Uetake • Ryoichi Tokumitsu • Kazuhito Hikima
- PS1-Thu-19** Development of a New Data Logger with Ultra Low Noise Using a Few A/D Converter  
Hitoshi Morikawa (Tokyo Institute of Technology) • Masayuki Araki • Takamori Ito • Keitaro Matsumoto • Masachika Tanigawa
- PS1-Thu-20** Evaluation of Site Effects at JMA, K-Net and KiK-net Observation Sites during the 2007 Noto Hanto Earthquake  
Hayato Nishikawa (Maizuru National College of Technology) • Toshikazu Ikemoto • Yoshiki Morimoto • Masakatsu Miyajima
- PS1-Thu-21** Study on Tsunami External Force and Pressure for Bridges  
Hisashi Nakao (Ritsumeikan University) • Katsuyoshi Nozaka • Kazuyuki Izuno • Hiroshi Kobayashi
- PS1-Thu-22** Analytical Study on Hydrodynamic Force of Tsunami Against Bridge Girder  
Shimpei Murakami (Ritsumeikan University) • Hong Ha Bui • Hisashi Nakao • Kazuyuki Izuno
- PS1-Thu-23** Comparison of Earthquake Observation Records on between Building and Ground Surface Using K-NET and SK-Net Data  
Masanori Iiba (Building Research Institute) • Toshihide Kashima
- PS1-Thu-24** Analysis of the Dynamic Characteristic of a Base-Isolated Building Affected by Partial Soil Improvement under Seismic Excitation  
Fangyuan Zhou (Nagoya University) • Masafumi Mori • Nobuo Fukuwa
- PS1-Thu-25** Damage Detection of Important Infrastructures Supported by Large Pile Groups in Weak Ground  
Masafumi Mori (Nagoya University) • Fangyuan Zhou • Nobuo Fukuwa
- PS1-Thu-26** E-Defense Shake Table Tests of a Pile-Foundation Structure in a Liquefiable Deposit  
Kentaro Tabata (National Research Institute for Earth Science and Disaster Prevention) • Masayoshi Sato
- PS1-Thu-27** A Study on Asymmetry of Seismic Response of Foundation-Soil-Structure System  
Hiroki Emoto (Kobe City College of Technology) • Norihiko Yamashita • Rei Fujita
- PS1-Thu-28** Toys of Isolation and Vibration Control for Science Education, Yurayura  
Yasuaki Nohguchi (National Research Institute for Earth Science and Disaster Prevention)
- PS1-Thu-29** Seismic Retrofit for a Pole on Railway Structures by Means of Damper and Its Verification Using Shaking Table  
Akihiro Toyooka (Railway Technical Research Institute) • Kimitoshi Sakai • Yoshitaka Muro • Jyoji Ejiri • Satoshi Watanabe • Go Tanaka • Hideaki Yokokawa • Shuuichi Nagata
- PS1-Thu-30** Development of Seismic Isolation Unit for Semiconductor Equipment in Existence  
Hiroshi Hibino (Taisei Corporation) • Maya Tanaka • Ichiro Nagashima • Youji Izumo • Shinji Ono • Takumi Kikuchi
- PS1-Thu-31** Seismic Response Characteristics and Damping Effects of Base-Isolation Structural Systems with Hysteretic Damping and Viscous Damping  
Atsuko Shirayama (General Building Research Corporation of Japan) • Shinji Ito • Tadamichi Yamashita • Yutaka Inoue
- PS1-Thu-32** Vibration Response Characteristics of Rocking Pillar Base Isolation System -The Effects of the Differences in Layout Conditions of Rocking Pillars and Superstructure Configurations on Seismic Performance of the Base Isolation System-  
Naoki Funaki (Tohoku Institute of Technology) • Tomomi Fujita
- PS1-Thu-33** Seismic Behavior of Isolated Buildings in Snow Seasons  
Shiori Okazaki (Fukui University of Technology) • Yasuyuki Nagano • Hiroshi Maeda
- PS1-Thu-34** Vibration Tests on Device of Reduction for Seismic Response Using Friction Bearing  
Kiyohiro Ooki (Tokyo Metropolitan College of Industrial Technology) • Katsumi Kurita • Shigeru Aoki • Yuuji Nakanishi • Kazutoshi Tominaga • Mitsuo Kanazawa
- PS1-Thu-35** Research and Development of New Generation Energy Dissipation System Using Super-Elastic Flexible Member  
Keiji Kitajima (Asunaro Aoki Construction Co., Ltd.) • Masaya Hada • Kenichi Takeuchi • Mitsukazu Nakanishi • Hiromi Adachi
- PS1-Thu-36** Transition of Regional Earthquake-Resistant Reinforcement Condition in the 23 Wards of Tokyo  
Osamu Murao (The University of Tsukuba) • Terukuni Onizuka
- PS1-Thu-37** Development, Diffusion, and Exploitation of a Supporting System for Initial Response at Disaster Countermeasures Office  
Makoto Endo (National Research Institute of Fire and Disaster) • Shinsaku Zama • Hideyuki Maeda

# November 19 (Fri.)

10:00-16:00(Core Time 13:30-14:30)

Multi-Purpose Hall

- PS2-Fri-1** Estimation of Site Amplification at Seismic Intensity Meter Stations in Fukuoka Prefecture  
Mitsutaka Oshima (Shimizu Corporation) • Hiroshi Takenaka • Hiroshi Kawase
- PS2-Fri-2** Waveform Inversion for 2-D Velocity Structures and Construction of 3-D Velocity Structure Using Its Results  
Kazuhito Hikima (TEPCO) • Kazuki Koketsu
- PS2-Fri-3** Joint Inversion Analysis of Microtremor H/V Spectrum and Dispersion Curve by the Use of Clustering Method  
Hirotō Nakagawa (Chiba University) • Shoichi Nakai
- PS2-Fri-4** A Study for Applying a Force-Balanced-Type Accelerometer to Gravity Measurement  
Hiroko Matsuo (Tokyo Institute of Technology) • Hitoshi Morikawa • Shigeo Matsuda • Satoshi Tokue
- PS2-Fri-5** Estimation of Velocity Structural Models of Fujisawa City by Microtremor Observation  
Shigeki Senna (NIED) • Shohei Naito • Xiao Hao • Nobusuke Hasegawa • Shinichi Kawai • Nobuyuki Morikawa • Nobuaki Kudo • Hiroyuki Fujiwara
- PS2-Fri-6** Estimation of Deep Ground Structure around the Damaged Area of 2008 Iwate-Miyagi Nairiku Earthquake  
Masachika Tanigawa (Tokyo Institute of Technology) • Hitoshi Morikawa • Hiroko Matsuo • Taiyo Kobayashi
- PS2-Fri-7** An Estimation Method of Frequency Response Functions for Vertical Array Earthquake Records  
Masataka Nakamura (Nihon University) • Jun-Ichi Suzumura
- PS2-Fri-8** Analysis of Long Period Ground Motions Based on Continuous Seismic Observation in the Kashiwazaki-Kariwa Nuclear Power Station  
Sadanori Higashi (CRIEPI) • Hiroaki Sato • Tomiichi Uetake • Ryoichi Tokumitsu • Kazuhito Hikima
- PS2-Fri-9** Inverse Analysis of Phase Velocity of Rayleigh Wave by Using Particle Swarm Optimization  
Yusuke Ono (Kyoto University) • Atsushi Sato • Masaaki Kubo • Junji Kiyono
- PS2-Fri-10** Relationship between Seismic Intensity, Damage Zone Due to the 1891 Nobi Earthquake and Predominant Period of H/V Spectral Ratio of Microtremors  
Masayuki Kuriyama (Central Research Institute of Electric Power Industry) • Hiroaki Sato
- PS2-Fri-11** Formulating Response Spectra of Long Period Ground Motions Due to Successively Occurred Subduction-Zone Earthquakes  
Masanobu Tohdo (Toda Corporation)
- PS2-Fri-12** Spectral Decay Characteristics in High Frequency Range of Ground Motions for Intra-Slab Earthquakes Occurred in West Japan  
Masato Tsurugi (Geo-Research Institute) • Takao Kagawa • Kojiro Irikura
- PS2-Fri-13** Effects of Spatial Variation of Slip Amplitude on Short-Period Ground Motions for the Crustal Events.  
Kenichi Tsuda (Ohsaki Research Institute) • Hideaki Tsutsumi
- PS2-Fri-14** Strong Ground Motions during the 1967 Teshikaga Earthquake(Mj6.5) and Their 3D Simulation  
Sho Masuda (JSOL) • Tsutomu Sasatani • Yadab Dhakal • Takahiro Maeda
- PS2-Fri-15** Structure of Northeastern Japan Arc and Strong Ground Motions: Strong Ground Motions from an Intraslab Earthquake and Interplate Earthquakes off Fukushima Prefecture  
Yasumaro Kakehi (Kobe University)
- PS2-Fri-16** Simulation of Strong Ground Motions during the 2007 Niigataken Chuetsu-Oki Earthquake in the Kashiwazaki-Kariwa Nuclear Power Plant with 3-D Structure of Deep and Shallow Soil Layers  
Koichiro Saguchi (Nihon Emsco) • Yuri Suzuki • Kazuaki Masaki • Susumu Kurahashi • Kojiro Irikura
- PS2-Fri-17** Evaluation of Long-Period Ground Motions Based on Site-Specific Amplification and Phase Characteristics  
-Strong-Motion Simulation for the Tokachi-Oki, Japan, Earthquake of 2003  
Kiminobu Eto (Tokyo Soil Research) • Shunichi Fukumoto • Atsushi Nozu
- PS2-Fri-18** Generation of Stochastic Input Ground Motion Model Using Genetic Algorithm  
Kazushige Sakurai (Kansai University) • Satoshi Matsuda
- PS2-Fri-19** Site Amplification Factor for Attenuation Relation  
Satoshi Fujikawa (Institute of Technology, Shimizu Corporation) • Masata Sugito

- PS2-Fri-20** Correction of Ground Motion Attenuation Model for Sedimentary Basin Amplification  
Tatsuya Itoi (University of Tokyo) • Tsuyoshi Takada
- PS2-Fri-21** Seismic Properties of Surface Deposits in Shimizu, Shizuoka by Microtremor Observations  
Katsutoshi Kita (Tokai University)
- PS2-Fri-22** Variation of Strong Ground Motion Response Spectra Based on Observed Records from Pair Events of the Same Magnitudes and Same Hypocenter  
Tomoki Hikita (Kajima Technical Research Institute)
- PS2-Fri-23** Multivariate Statistical Analysis for Seismotectonic Zonation by the Use of Earthquake, Active Fault and Crustal Structure Datasets  
Masataka Tsukada (Okayama University) • Takashi Kumamoto • Hideaki Goto
- PS2-Fri-24** Earthquake Risk Assessment System in Snow Country Using GIS  
Toshihiko Mizuta (Akita National College of Technology)
- PS2-Fri-25** Estimation of Seismic Performance of Single Pile and Group Piles in Composite Ground  
Koichi Tomisawa (Civil Engineering Research Institute for Cold Region Public Work Research Institute) • Seiichi Miura
- PS2-Fri-26** A Study on Seismic Reinforcement Effect of Pile Foundation by the Additional Pile System  
Toshiaki Arai (Nishimatsu Construction) • Hirofumi Sakihama • Daisaku Sano • Shigeo Kanai • Tsutomu Hirade • Hiroshi Arai
- PS2-Fri-27** Loading Tests on Additional Piles System for Seismic Reinforcement of Pile Foundation  
Osamu Kaneko (Toda Corporation) • Hisashi Nemoto • Shigeo Kanai • Yasuyuki Shikamori • Tsutomu Hirade • Namihiko Inoue
- PS2-Fri-28** A Study on Dynamic Response of Underground Structures  
Takanobu Suzuki (Toyo University)
- PS2-Fri-29** Dynamic Response of Confined Brick Masonry Buildings  
Khan Shahzada (University of Engineering & Technology Peshawar) • Akhtar Khan • Amr Elnashai • Amjad Naseer • Mohammad Ashraf • Muhammad Javed • Giulio Martire
- PS2-Fri-30** Experimental Study on Over-Track Building Reinforced with Knee Brace Dampers  
Seiji Yamada (Railway Technical Research Institute) • Katsuyuki Shimizu • Yasushi Takei • Satsuya Soda
- PS2-Fri-31** 3-Dimensional FEM Analysis on Reinforced Concrete Core Walls  
Tadaharu Nakachi (Fukui University of Technology)
- PS2-Fri-32** Experimental Study on Edge Confinement of Reinforced Concrete Core Walls  
Ryota Tokunaga (Fukui University of Technology) • Tadaharu Nakachi
- PS2-Fri-33** Compressive Properties of Panel in Reinforced Concrete Core Walls  
Naoyuki Minami (Giken Corporation) • Tadaharu Nakachi
- PS2-Fri-34** Strong Motion Observation at Hachinohe City Hall  
Toshihide Kashima (Building Research Institute) • Shin Koyama • Masanori Iiba • Izuru Okawa
- PS2-Fri-35** This program will be presented at November 20 (Sat.) in the poster presentation.
- PS2-Fri-36** Development of Remote Vibration Measuring System for Detection of Seismic Damaged Structures  
Fumiaki Uehan (Railway Technical Research Institute) • Osamu Murata
- PS2-Fri-37** A Study on Seismic Behavior of High-Rise RC Frame with Soft First Story Considering Axial Displacement of Side Columns  
Naofumi Teramoto (Akita Prefectural University) • Tetsuya Nishida • Jun Kobayashi
- PS2-Fri-38** Experimental Discussion on Earthquake Displacement Measurement by Using RTK-GPS  
Masahiro Takenobu (Port and Airport Research Institute) • Noriyoshi Suzuki • Daisuke Suzuki • Takahiro Sugano • Eiji Kohama
- PS2-Fri-39** Dynamic Properties of 4-Story RC Building Based on a Series of Vibration Measurement during Dismantlement Construction  
Hiroaki Kojima (Nagoya University) • Nobuo Fukuwa • Jun Tobita
- PS2-Fri-40** Influence of Natural Period and the Dominant Period of Earthquake to the Slide Displacement of a Wooden Structure  
Koji Yamada (Toyota National College of Technology) • Kyosuke Mukaibo • Yoshiyuki Suzuki
- PS2-Fri-41** Research on Evaluating Earthquake Resisting Performance and Horizontal Rigidity of Wooden Building by Using Microtremors.  
Shuji Honda (Nikken Sekkei Civil Engineering Ltd) • Kiyoshi Hayakawa
- PS2-Fri-42** A Study on the Structural Strength Calculation Method for Stories Consisting of a Timber Frame and Shear Wall  
Makoto Kageyama (Kinki University) • Masahide Murakami
- PS2-Fri-43** Development and Application of New Seismic Strengthening Shear Wall for Conventional Wooden Structure

- PS2-Fri-44** Takayuki Sugimoto (Kinki Univ.) • Makoto Kageyama • Norio Iwata • Masahide Murakami  
Resisting Mechanism of Mortise-Tenon Joint with Cotter-Pin Subjected to Tensile Force and Constant Bending Moment
- PS2-Fri-45** Masato Nakao (Yokohama National University) • Masami Gotou • Yoshiyuki Suzuki  
Evaluation of Restoring Force Characteristics of Mud-Plastered Wooden Frameworks by Traditional Construction Method in Tottori
- PS2-Fri-46** Hiroyuki Nakaji (Tottori University of Environmental Studies) • Kouji Yamada • Yoshiyuki Suzuki  
Earthquake Response Analysis Based on Strength and Embedment Tests of Old Wooden Members  
Yu Ooka (Ritsumeikan University) • Hideaki Tanahashi • Kazuyuki Izuno • Yoshiyuki Suzuki • Kenzo Toki
- PS2-Fri-47** Elastic Plastic Analysis of Damaged Wooden Building Structures on the 2007 Noto Hanto Earthquake  
Masami Kobayashi (The University of Shiga Prefecture) • Saori Nakao
- PS2-Fri-48** Structural Health Monitoring and Evaluation of Damping Characteristics in a High Rise Steel Building Based on Microtremor Measurement  
Toshiharu Arakawa (Meiji University)
- PS2-Fri-49** An Analytical Model for the Seismic Performance Evaluation of Unreinforced Masonry Building Reinforced with Wire Mesh  
Mohammad Ashraf (University of Engineering & Technology Peshawar, Pakistan) • Akhtar Khan • Amjad Naseer • Khan Shahzada
- PS2-Fri-50** Study on Welding Reinforcement Effects of Single Angle Brace Joints in Seismic Retrofit  
Shohei Kaida (Akita Pref. Univ.) • Keita Sakamoto • Akihiko Obata • Tetsuya Nishida • Jun Kobayashi
- PS2-Fri-51** Actual Measured Concrete Strength of Existing Reinforced Concrete School Buildings in Akita  
Hideto Kanno (Akita Prefectural University) • Toshio Yamazaki • Tetsuya Nishida • Jun Kobayashi
- PS2-Fri-52** Simplified Method to Evaluate Ground Seismic Strains with Irregular Boundaries  
Takashi Sakanoue (Tokyo Gas)
- PS2-Fri-53** Melody Making of Ground Motion Records  
Nobuyuki Yamada (Fukuoka Univ. of Education)
- PS2-Fri-54** Experimental Study on Evaluation of Equivalent Stationary Vibration Against Strong Floor Response Using Long Stroke Shaking Table  
Toru Takahashi (Chiba University) • Noriko Suzuki • Taiki Saito • Tatsuya Azuhata • Koichi Morita • Kazuya Noguchi
- PS2-Fri-55** Influences of Earthquake Disaster Experience on Risk Perception  
Reo Kimura (Fuji Tokoha University) • Keiko Tamura • Munenari Inoguchi • Haruo Hayashi
- PS2-Fri-56** Influences of the Earthquake Disaster Experience on Relation to the Administrations  
Keiko Tamura (Niigata University) • Reo Kimura • Munenari Inoguchi • Haruo Hayashi
- PS2-Fri-57** Characteristics of Long-Period Ground Motion Around Tokyo Bay Area Inferred from Broadband Earthquake Observation  
Tomiichi Uetake (Tokyo Electric Power Company)
- PS2-Fri-58** A Study on Probabilistic Earthquake Hazard Evaluation Adopting the Fault Rupture Model under Characteristic Stress Field  
Takao Kagawa (Tottori University)

# November 20 (Sat.)

10:00-14:30(Core Time 12:30-14:30)

## Multi-Purpose Hall

- PS3-Sat-1** Liquefaction Characteristics of Granular Material Modeled Volcanic Coarse-Grained Soil  
Noritaka Aramaki (Sojo University) • Junichi Kiyomatsu • Takumi Okabayashi
- PS3-Sat-2** Liquefaction Characteristic of Intermediate Soil Including Gravel  
Tadashi Hara (Kochi University) • Hirofumi Toyota • Susumu Takada • Kouichi Nakamura
- PS3-Sat-3** Case Studies of Ground Motion on Silty Sand Layer during the Liquefaction  
Toshikazu Morita (Fukushima National College of Technology) • Satoshi Ito
- PS3-Sat-4** Consideration on the Change of S-H/V Spectral Ratio Due to Nonlinear Soil Response  
Shinako Noguchi (The University of Tokyo) • Tsutomu Sasatani
- PS3-Sat-5** Experimental Study on Asymmetric Vertical Acceleration Under Strong Motion  
Tetsuo Tobita (Kyoto University) • Kouji Hada • Shin Aoi • Tomotaka Iwata • Susumu Iai
- PS3-Sat-6** Effect of Shear Modulus and Volumetric Strain on Excess Pore Water Pressure Generation Condition.  
Teruhisa Fujii (Fukken Co. Ltd.) • Takahiro Sugano • Hiroshi Nakazawa • Kazuhiro Yamada • Yasutaka Kimura
- PS3-Sat-7** A Dynamic Analysis Using Water Elements with Degree of Freedom of Displacements  
Yousuke Ohya (Port and Airport Research Institute) • Nozomu Yoshida • Takahiro Sugano
- PS3-Sat-8** Effect of the Thickness of Geological Strata on the Seismic Slope Failure at Volcanic Hilly Area  
Shiho Asano (Forestry and Forest Products Research Institute)
- PS3-Sat-9** Effect of Geographical Features for Slope Failure in the 2004 Mid Niigata Prefecture Earthquake and 2008 Iwate-Miyagi Nairiku Earthquake  
Naoto Inoue (Geo-Research Institute)
- PS3-Sat-10** Earthquake Behavior of Concrete-Block Retaining Wall and Simple Reinforced Concrete-Block Retaining Wall  
Tsutomu Hirade (Building Research Institute) • Tadashi Mikoshiba • Kazuhisa Mikami
- PS3-Sat-11** Static Test on a 1/6 Scale of Specimen of Bridge Abutment and Its Simulation Analysis  
Yukihide Kajita (Kyushu University) • Toshiki Utsumi • Hisanori Otsuka • Kenji Tasaki • Seiya Hikino
- PS3-Sat-12** Verification of Accuracy of Nonlinear Static Procedure by Using Observed Seismic Response of R/C Weak-Model Structure  
Kenji Fujii (Chiba Institute of Technology)
- PS3-Sat-13** Analysis of Vertical Ground Motions of Near Source Records in Japan and Their Effects on Nonlinear Responses of Steel Arch Bridges  
Takanori Harada (Dept. of Civil and Environmental Engineering, University of Miyazaki) • Tetsuya Nonaka • Yoshihide Kodama • Masaki Nakamura
- PS3-Sat-14** Fpga Application to Real-Time Seismic Response Simulator for Large-Scale Structural Models  
Akira Igarashi (Kyoto University) • Jun-Ichi Mashima
- PS3-Sat-15** The Overall Evaluate of Various Factors to Influence an Earthquake Response of the Structure  
Saori Agata (Tokyo City University) • Toshiyuki Katada • Naoaki Suemasa • Fumitaka Arai
- PS3-Sat-19** Improvement of Accuracy of Expected Seismic Intensities for Earthquake Early Warning in Japan by Using Empirically Estimated Site Amplification Factors  
Kazuhiro Iwakiri (Meteorological Research Institute) • Mitsuyuki Hoshiba • Kouji Nakamura • Nobuyuki Morikawa
- PS3-Sat-20** Improvement of Back-Azimuth Estimation in Real-Time by Using Single Station Record  
Shunta Noda (Railway Technical Research Institute) • Kimitoshi Ashiya • Shunroku Yamamoto • Shinji Sato • Masahiro Korenaga
- PS3-Sat-21** Performance of Earthquake Early Warning of JMA and Its Technical Improvement  
Toshihiro Shimoyama (Seismological and Volcanological Department, Japan Meteorological Agency) • Kazuyuki Hirano • Yasuyuki Yamada • Mitsuyuki Hoshiba • Kazuo Ohtake • Kazuhiro Iwakiri
- PS3-Sat-22** Real-Time Estimation of Seismic Intensity for Great Earthquakes Using Saturation Area of PGA Near Source Fault - Upgrading of Earthquake Early Warning System for Great Earthquakes-  
Susumu Kurahashi (Aichi Institute of Technology) • Kazuaki Masaki • Kojiro Irikura
- PS3-Sat-23** A Method for Realtime Estimation of a Map of Earthquake Ground Motion  
Iwao Suetomi (Eight-Japan Engineering Consultants Inc.) • Eisuke Ishida • Yasuhiro Fukushima
- PS3-Sat-24** Improvements in the Processing Techniques of JMA Earthquake Early Warning to Introduce OBS Data  
Kazuo Ohtake (Meteorological Research Institute, JMA) • Mitsuyuki Hoshiba • Kazuhiro Iwakiri

- PS3-Sat-25** Estimating Seismic Intensity in Building for Earthquake Early Warning System  
Mutsuhiro Yoshizawa (Takenaka Corporation)
- PS3-Sat-26** Impact and Collapse Analysis of Neighboring Buildings under Long-Period Ground Motion  
Daigoro Isobe (University of Tsukuba) • Tokiharu Ohta • Tomohiro Inoue • Fujio Matsueda
- PS3-Sat-27** Status Report on Countermeasures Against Liquid Sloshing of Oil Storage Tank  
Shinsaku Zama (National Research Institute of Fire and Disaster)
- PS3-Sat-28** A Study on Required Redundancy in Capacity Spectral Method  
Tatsuya Azuhata (National Institute for Land and Infrastructure Management)
- PS2-Fri-35** Study on Vibration Characteristics of a High-Rise Building Using Results of Microtremor, Man-Power Excitation and Earthquake Response Measurement and Simulations of a 3-D Structure Model, and Seismic Retrofit Using Viscous Dampers  
Tetsuo Yamashita (Kogakuin University) • Yukio Hoshi • Yoshiaki Hisada • Yoe Masuzawa • Kenta Shimamura