LIST OF PAPERS BY MEMBERS OF EARTHQUAKE RESISTANT STRUCTURE RESEARCH CENTER

SEISAN-KENKYU : Bimonthly Journal of the Institute of Industrial Science,

The University of Tokyo

- JSCE : The Japan Society of Civil Engineers
- JSME : The Japan Society of Mechanical Engineers
- AIJ : The Architectural Institute of Japan
- JCI : Japan Concrete Institute
- JSSC : The Japan Society of Steel Construction
- JGS : The Japanese Geotechnical Society
- JAEE : The Japan Association for Earthquake Engineering
- * : Written in Japanese

K. Konagai, J. Johansson, S. Takatsu and T. Ikeda, Huge landslides caused by massive earthquakes and long-lasting geotechnical risks, Landslides – Disaster Risk Reduction –, ISBN: 978-3-540-69966-8, 159-176, 2009.

K. Konagai, Background and overview of the Chine/Japan Joint Investigation for the 2009 Wenchuan Earthquake, Investigation report of the May 12th 2008, Wenchuan Earthquake, China, Konagai, K. eds., Grant-in-Aid for Special Purposes of 2008, Ministry of Education, Culture, Sports, Science and Technology (MEXT). No. 20900002, 1-4, 2009.

F. Wang, P. Sun, K. Konagai, Y. Yin and H. Fukuoka, The mechanism of initiation and motion of the rapid and long runout landslides triggered by the 2008 Wenchuan Earthquake, Investigation report of the May 12th 2008, Wenchuan Earthquake, China, Konagai, K. eds., Grant-in-Aid for Special Purposes of 2008, Ministry of Education, Culture, Sports, Science and Technology (MEXT). No. 20900002, 47-56, 2009.

K. Konagai, Y. Ishikawa, S. Tsuchiya and F. Wang, Debris flows and geotechnical problems, Investigation report of the May 12th 2008, Wenchuan Earthquake, China, Konagai, K. eds., Grant-in-Aid for Special Purposes of 2008, Ministry of Education, Culture, Sports, Science and Technology (MEXT). No. 20900002, 85-94, 2009.

K. Konagai, Recommendations from geotechnical aspects, Investigation report of the May 12th 2008, Wenchuan Earthquake, China, Konagai, K. eds., Grant-in-Aid for Special Purposes of

2008, Ministry of Education, Culture, Sports, Science and Technology (MEXT). No. 20900002, 293-298, 2009.

A. Sattar, K. Konagai, T. Ikeda, T. Kiyota, Z.A. Kazmi and M. Koike, A quantitative approach to assess landform changes of Hattian Ballah Landslide Dam formed by the Kashmir Earthquake, Bulletin of Earthquake Resistant Structure Research Center, No. 42, 3-16, 2009.

Z.A. Kazmi, K. Konagai, T. Ikeda, T. Kiyota, K. Kondo and A. Sattar, Slope failure induced debris flow hazards in the October 8, 2005, Kashmir Earthquake, Bulletin of Earthquake Resistant Structure Research Center, No. 42, 17-31, 2009.

K. Konagai, Y. Ishikawa, S. Tsuchiya and F. Wang, Geotechnical issues caused by the May 12th 2008, Wenchuan Earthquake, Bulletin of Earthquake Resistant Structure Research Center, No. 42, 35-42, 2009.

K. Konagai, T. Fujita, F. Nomura, Y. Tomiyasu, M. Date, Y. Tajima and T. Katagiri, Provisional Report of the damage caused by the June 14th 2008, Iwate-Miyagi Earthquake, Bulletin of Earthquake Resistant Structure Research Center, No. 42, 43-50, 2009.

K. Konagai, T. Arita and Y. Matsumura, Overview of the damage caused by the August 11th 2009, Off the Coast of Suruga Bay Earthquake, SEISAN-KENKYU, 61(6), 73-82, 2009.

T. Kiyota, J. Koseki, T. Sato, and R. Kuwano, Aging effects on small strain shear moduli and liquefaction properties of in-situ frozen and reconstituted sandy soils, Soils and Foundations, 49 (2), 259-274. 2009.

T. Kiyota, J. Koseki, T. Sato, and Y. Tsutsumi, Effects of sample disturbance on small strain characteristics and liquefaction properties of Holocene and Pleistocene sandy soils, Soils and Foundations, 49 (4), 509-523. 2009.

G. Chiaro, T. Kiyota, L. I. N. De Silva, T. Sato, and J. Koseki, Extremely large post-liquefaction deformations of saturated sand under cyclic torsional shear loading, Proc. of the TC4, Earthquake Geotechnical Engineering Conference, Alexandria, Egypt, Paper-ID: 03, 2009.

T. Kiyota, J. Koseki, and T. Sato, Evaluation of liquefaction induced ground deformation by large strain torsional shear tests, Proc. of the TC4, Earthquake Geotechnical Engineering

Conference, Alexandria, Egypt, Paper-ID: 13, 2009.

Y. Nakano, M. Maeda, J. Sakuta and M. Sakashita, Building Damage Due to 2008 Wenchuan Earthquake and Cooperative Activities on Damage Restoration by Japanese Experts, Bulletin of Earthquake Resistant Structure Research Center, No.42, Institute of Industrial Science, the University of Tokyo, 51-62, Mar. 2009.

Y. Nakano, M. Maeda, J. Sakuta and M. Sakashita, Building Damage due to 2008 Sichuan (Wenchuan) Earthquake and Cooperative Activities on Damage Restoration by Japanese Experts, Investigation Report on the May 12th 2008, Wenchuan Earthquake, China, Final report of the investigation project, Grant-in-Aid for Special Purposes of 2008, MEXT, Japan No. 20900002, 169-180, June 2009.

H. Choi and Y. Nakano, Estimation of Seismic Capacity of Korean Typical School Buildings Under Design Response Spectrum, Proceedings of the Eighth International Symposium on New Technologies for Urban Safety of Mega Cities in Asia, Incheon, Korea, 153-162, Oct 15-16, 2009.

R. Kuwahara, N. Takahashi, H. Choi and Y. Nakano, Residual Displacement Prediction of RC Building Structures Using Earthquake Response Spectra, Proceedings of the Eighth International Symposium on New Technologies for Urban Safety of Mega Cities in Asia, Incheon, Korea, 173-182, Oct 15-16, 2009.

K. W. Jin, H. Choi, N. Takahashi and Y. Nakano, Failure Mechanism and Seismic Capacity of RC Frames with URM Wall Considering Beam Deformation, Proceedings of the Eighth International Symposium on New Technologies for Urban Safety of Mega Cities in Asia, Incheon, Korea, 251-260, Oct 15-16, 2009.

N. Takahashi and Y. Nakano, A Study on Seismic Repair Cost of R/C Building Structures Using A Geometrical Damage Estimation Model of R/C Members, Proceedings of the Eighth International Symposium on New Technologies for Urban Safety of Mega Cities in Asia, Incheon, Korea, 313-322, Oct 15-16, 2009.

N. Takahashi and Y. Nakano, Seismic Repair Cost of R/C Structures Using A Geometrical Damage Estimation Model, Proceedings of the First International Conference on Computational Design in Engineering, Seoul, Korea, 515-518, Nov 4-5, 2009.

H. Choi and Y. Nakano, Damage Class of Korean School Building Under Design Response Spectrum Level, Proceedings of the First International Conference on Computational Design in Engineering, Seoul, Korea, 695-698, Nov 4-5, 2009.

K. Kawaguchi and S. Ohya, Monitoring of Full-Scale Tensegrity Skeletons under Temperature Change, Proceedings of the IASS Symposium 2009, Valencia, Sep. 2009, 224-231, 2009.

K. Kawaguchi, Covered Baseball Stadiums in Japan, Plenary Invited Lecture, ANSAN Dome Seminar, Seoul, Korea, Nov. 2009, 55-79, 2009.

* Y. Ogi, Y. Oba and K. Kawaguchi, Damage to Non-Structural Components in Large Roof Buildings Failed during the Earthquake in Suruga-Bay of Japan in August 11th of 2009, SEISAN-KENKYU, Vol. 61, No. 6, 2009, 83-89, 2009.

* S. Kumagai, K. Kawaguchi, T. Nagai and M. Araya, Fundamental Investigation of the Fall of the Large Suspended Ceiling during Miyagi-Oki Earthquake Aug.16,2005.(Part2), Summaries of Technical Papers of Annual Meeting, AIJ, Sendai, Japan, Aug. 2009, CD-ROM, No. 20452, 903-904, 2009.

* Y. Ogi, K. Kawaguchi, S. Katayama and S. Kumagai, Report of Non-Structural Components in Large Roof Buildings Failed during the Iwateken Engan-Hokubu Earthquake in 2008, Summaries of Technical Papers of Annual Meeting, AIJ, Sendai, Japan, Aug. 2009, CD-ROM, No. 20451, 901-902, 2009.

* S. Oya, K. Kawaguchi, Y. Ogi, S. Katayama, S. Kumagai and S. Sakurai, Report of Non-Structural Components in Large Roof Buildings Failed during the Iwate Miyagi Nairiku Earthquake in 2008, Summaries of Technical Papers of Annual Meeting, AIJ, Sendai, Japan, Aug. 2009, CD-ROM, No. 20450, 899-900, 2009.

* S. Sakurai, K. Kawaguchi, S. Kumagai, K. Ando, T. Nagai and M. Araya, Fundamental Study of Non-Seismic Failure of Suspended Ceilings of Swimming Pools - Pull Out Strength of Screws in Humid Circumstances -, Summaries of Technical Papers of Annual Meeting, AIJ, Sendai, Japan, Aug. 2009, CD-ROM, No. 20449, 897-898, 2009.

* Y. Ozawa and K. Kawaguchi, Fundamental Study of Shapes and Mechanism of Safety Nets for Non-Structural Components, Summaries of Technical Papers of Annual Meeting, AIJ, Sendai, Japan, Aug. 2009, CD-ROM, No. 20448, 895-896, 2009.

* S. Katayama, K. Kawaguchi, T. Uchida, Y. Ogi and S. Ohya, Fundamental Research on the Safety Criteria of Non-Structural Components in Large Enclosures Using Human Tolerance Index Part 2: Results of the Experiments, Summaries of Technical Papers of Annual Meeting, AIJ, Sendai, Japan, Aug. 2009, CD-ROM, No. 1542, 1083-1084, 2009.

* T. Uchida, K. Kawaguchi and S. Katayama, Fundamental Research on the Safety of Non-Structural Components, Using Human Tolerance Index, in Large Enclosures Criteria Part 1: Human Tolerance Indexes, Summaries of Technical Papers of Annual Meeting, AIJ, Sendai, Japan, Aug. 2009, CD-ROM, No. 1541, 1081-1082, 2009.

M. Koshihara, H. Isoda and S. Yusa, The Design and Installation of a Five-Story New Timber Building in Japan, Timber Structures from Antiquity to the Present, The International Symposium on Timber Structures, 25-27 June 2009, Istanbul, Turkey, 2009.

K. Nomura, M. Ohara and K. Meguro, Consideration on change of land price after an urban earthquake, SEISAN-KENKYU, 61(4), 93-96, 2009.

S. Kishida, M. Ohara and K. Meguro, A basic study on development of an education curreiculum for disaster reduction in a compulsory education course, SEISAN-KENKYU, 61(4), 97-100, 2009.

T. Kou and K. Meguro, Comparative Analysis of Planned and Actual Disaster Management Operations Performed during and just after the 2007 Cyclone Sidr in Bangladesh, SEISAN-KENKYU, 61(4), 101-105, 2009.

K. Saito, S. Kondo and K. Meguro, Crime information database design to prevent crimes for children, SEISAN-KENKYU, 61(4), 106-109, 2009.

M. Numada, K. Nomura, M. Ohara, K. Meguro and K. Takano, Seismic response records observed at IIS due to the August 11th 2009 Suruga Bay Earthquake, SEISAN-KENKYU, 61(6), 90-94, 2009.

M. Numada and K. Konagai, The research on the movement and deformation of landslide mass" SEISAN-KENKYU, 61(6), 65-68, 2009.

M. Numada and K. Konagai, Proposal of evaluation approach of slide surface friction coefficient of landslide that uses buckling theory, SEISAN-KENKYU, 61(6), 69-72, 2009.

K. Sakurai, N. Sathiparan and K. Meguro, Experimental Study on Masonry Wallet Made of Shapeless Stones Retrofitted by PP-band Mesh, SEISAN-KENKYU, 61(6), 95-98, 2009.

N. Sathiparan, K. Sakurai and K. Meguro, Experimental Study of PP-band Retrofitted Masonry Structure made of Shapeless Stones, SEISAN-KENKYU, 61(6), 99-102, 2009.

M. Ohara, Y. Jibiki, N. Sekiya, T. Sumi, K. Meguro and A. Tanaka, A Survey Report on Effectiveness of Earthquake Early Warning by J-ALERT System," SEISAN-KENKYU, 61(6), 103-108, 2009.

K. Sakurai, N. Sathiparan and K. Meguro, Experimental Study on masonry wallette made of shapeless stones retrofitted by PP-Band Mesh, Proc. of the 8th International Symposium on New Technologies for urban Safety of Mega Cities in Asia(USMCA), 15-16 Oct 2009, Incheon, Korea. CD-ROM, 2009.

Sathiparan, N., Mayorca, P. and Meguro, K., Parametric Study of Diagonal Shear Tests on Masonry Wallettes Retrofitted by PP-band Mesh, Proceeds of the 30th JSCE Earthquake Engineering Symposium, May 2009, CD-ROM, 2009.

Sathiparan N., Sakurai K., and Meguro K., Experimental Study of PP-Band Retrofitted Masonry Structure made of Shapeless Stone, SEISAN-KENKYU Vol.61 No.6 Bimonthly Journal of Institute of Industrial Science, University of Tokyo, 1051-1054, 2009.

Sathiparan N., Mayorca P., and Meguro K., Experimental Study on PP-band Mesh Seismic Retrofitting for Low Earthquake Resistant Arch Shaped Roof Masonry Houses, Proc. of the 8th International Symposium on New Technologies for Urban Safety of Mega Cities in Asia, CD-ROM, 15-16 Oct 2009, Korea, 2009.

P. J. Baruah and K. Meguro, The Business Case for Sustainability: With a Focus on LEED® Green Building Assessment System, SEISAN-KENKYU, Vol.61, No.4, 737-741, 2009.7.

A. Kawasaki, P. Rogers, S. Herath and K. Meguro, Cross-boundary Water Resources Adaptation: Comparing a watershed approach and a political unit approach, Proc. of the 8th International Symposium on New Technologies for urban Safety of Mega Cities in Asia, 97-105, Korea, 2009.10.

P. J. Baruah and K. Meguro, Comparison between LEED and CASBEE Green Building Assessment

System, Proc. of the 8th International Symposium on New Technologies for urban Safety of Mega Cities in Asia, 107-118, Korea, 2009.10.

K. Meguro and S. Kondo, Information Management for Disaster Reduction, Proc. of the 8th International Symposium on New Technologies for Urban Safety of Mega Cities in Asia, 365-382, Korea, 2009.10.

M. Abe, K. Meguro, and M. Yokoya, Introduction of Disaster Imagination Workshop into Risk-Management Training for Nursery School Leaders, Proc. of the 8th International Symposium on New Technologies for Urban Safety of Mega Cities in Asia, 591-598, Korea, 2009.10.

K. Meguro, Survey on a New Tsunami Disaster Mitigation System, ICUS Newsletter, Vol.9, No.2, p.8, 2009.11.

P. Mayorca and K. Meguro, Formulation of A Simple Method to Design PP-band Mesh Retrofitting for Adobe/Masonry Houses, Bulletin of Earthquake Resistant Structure Research Center, No.42, 121-130, 2009.3.

K. Meguro, ICUS Welcomes Visiting Prof. Y. Ichihashi and Dr. M. Numada, ICUS Newsletter, Vol.9, No.1, p.11, 2009.8.

K. Meguro, Evaluation of ICUS Activities by External Experts, ICUS Newsletter, Vol.9, No.2, p.9, 2009.11.

K. Meguro, Implementation of Earthquake Safer Housing by Combination of Technological and Social approaches, 6 pages, Text book of BUET Seminar (Bangladesh University of Engineering and Technology Seminar) on Urban Safety and Disaster Mitigation, 2010.3.

K. Meguro and S. Kondo, Integrated Disaster Information System and Information Management, 8 pages, Text book of BUET Seminar (Bangladesh University of Engineering and Technology Seminar) on Urban Safety and Disaster Mitigation, 2010.3.

M. Numada and K. Konagai, Landslide movement and deformation for different length and width of landslide mass", Proc. of the 8th International Symposium on New Technologies for Urban Safety of Mega Cities in Asia, CD-ROM, 15-16 Oct 2009, Korea, 2009.

M. Numada and K. Konagai, The study of relationship between landslide geometry and run-out distance of landslide mass", Proc. of the 7th International Conference on Urban Earthquake Engineering (7th CUEE) and the 5th International Conference on Earthquake Engineering (5th ICEE), CD-ROM, 3-5 March 2010, Japan, 2010.

M. Numada Visit to Maintenance Demonstration of Metropolitan Expressway Co. Ltd., ICUS Newsletter, Vol.9, No.1, p.9, 2009.6.

M. Numada, Report on Suruga Bay Earthquake, Japan, ICUS Newsletter, Vol.9, No.2, p.6, 2009.9.

M. Numada, Report on Suruga Bay Earthquake, Japan, ICUS Newsletter, Vol.9, No.3, pp. 6-7, 2009.12.

M. Ohara, Y. Jibiki, N. Sekiya, T. Sumi, K. Meguro and A. Tanaka: A Study on Residents' Response to Earthquake Early Warning at the 2008 Iwate-Miyagi Inland Earthquake in Japan, Proceedings of the Eighth International Symposium on New Technologies for Urban Safety of Mega Cities in Asia, Inchon, Korea, CD-Rom, 2009.

M. Fujiu, M. Ohara, and K. Meguro: A Basic Study on Development of New Training System for Building Damage Assessment, Proceedings of the Eighth International Symposium on New Technologies for Urban Safety of Mega Cities in Asia, Inchon, Korea, CD-Rom, 2009.

J. Koseki, T. Nishimoto, and T. Sato, Anisotropy in shear and tensile strength properties of cement-treated sand prepared by compaction, Proc. of International Symposium on Deep Mixing & Admixture Stabilization, Okinawa, CD-ROM, 2009.

J. Koseki, S. Nakajima, M. Tateyama, K. Watanabe and M. Shinoda, Seismic performance of geosynthetic reinforced soil retaining walls and their performance-based design in Japan, Theme Lecture, Proc. of International Conference on Performance-Based Design in Earthquake Geotechnical Engineering - from case history to practice -, Tsukuba, 149-161, 2009.

Y. Tsutsumi and S. Maqbool, Comparison of strain localization properties of dense clean sand and well-graded gravel in plane strain compression tests, Proc. of the 17th International conference on Soil Mechanics and Geotechnical Engineering, Alexandria, 388-391, 2009.

G. Chiaro, T. Kiyota, L.I.N. De Silva, T. Sato and J. Koseki, Extremely large post-liquefaction deformations of saturated sand under cyclic torsional shear loading, Earthquake Geotechnical Engineering Satellite Conference, 17th International Conference on Soil Mechanics and Geotechnical Engineering, Alexandria, CD-ROM, 2009.

T. Mikami, J. Koseki, T. Sato and C. Yajima, Study on use of granular materials made from recycled glass bottles as a countermeasure against earthquake-induced uplift of underground pipes, Earthquake Geotechnical Engineering Satellite Conference, 17th International Conference on Soil Mechanics and Geotechnical Engineering, Alexandria, CD-ROM, 2009.

J. Koseki and T. Namikawa, Behavior of lattice-type ground improvement by cement-mixing for liquefaction mitigation, Proc. of International Symposium on Ground Improvement Technologies and Case Histories, Singapore, 257-262, 2009.12.

G. Chiaro, T. Sato and J. Koseki, Behavior of saturated sand with initial static shear stress in cyclic torsional shear tests Proc. of 11th International Summer Symposium, International Activities Committee, JSCE, 109-112, 2009.9.

J. Lee, T. Sato and J. Koseki, Effects of lime and water contents on strength properties of a lime-mixed soil, Proc. of 11th International Summer Symposium, International Activities Committee, JSCE, 133-136, 2009.9.

M. Kaneko and J. Koseki, Behavior of levee models reinforced with cutoff steel sheet-piles during earthquake, Proc. of the 8th International Symposium on New Technologies for Urban Safety of Mega Cities in Asia, Incheon, 57-65, 2009.10.

Mukunoki,T., Kumano,N., Otani,J. and Kuwano,R., Visualization of three dimensional failure in sand due to water inflow and soil drainage from defected underground pipe using X-ray CT, Soils and Foundations, Vol.49, No.6, 959-968, 2009.

Wicaksono, R.I. and Kuwano, R., Small Strain Stiffness of Uniform Granular Materials Based on Dynamic and Static Measurements, Proc. the 17th International Conference on Soil Mechanics and Geotechnical Engineering, ICSMGE 2009, Alexandria, 287-290, 2009.

Wicaksono, R.I. and Kuwano, R., Small Strain Stiffness of Toyoura Sand Obtained from Various Techniques in Laboratory Measurements, Earthquake Geotechnical Engineering Satellite Conference, TC4 of ISSMGE, CD-ROM, 2009.

Beltran-Galvis, A.L. and Kuwano, R., Volume change of sandy soil during saturation process under isotropic stress state, the 64th annual conference of JSCE, Fukuoka, September 2009, III -337, 2009.

Cokorda,B.P.D. and Kuwano,R., Unconfined Compression Strength of Lime-stabilized Soil used for Backfill Material of Buried Flexible Model Pipe with Wet-Dry Condition Simulation, the 64th annual conference of JSCE, Fukuoka, September 2009, III-500, 2009.

Beltran-Galvis, A.L. and Kuwano, R., Change of Physical and Mechanical Properties of Sandy Soil due to Repeated Infiltration, Proc. the 11th International Summer Symposium, International Activities Committee, JSCE, 145-148, 2009.

Cokorda,B.P.D. and Kuwano,R., Model Test of Flexible Pipe Buried in Lime-Treated Recycled Soil, Proc. the 11th International Summer Symposium, International Activities Committee, JSCE, 101-104, 2009.

Ko.D.H. and Kuwano,R., Study on Behaviour of Flexible Buried Pipe under Cyclic Loading in a Large Soil Chamber, Proc. the 11th International Summer Symposium, International Activities Committee, JSCE, 97-100, 2009.

Wicaksono,R.I. and Kuwano,R., Experimental Investigation on Deformation Characteristics of Lightly Cemented Sand, Proc. the 11th International Summer Symposium, International Activities Committee, JSCE, 129-132, 2009.

Suwal,L.P., Kuwano,R., Ebizuka,H. and Sato,T., Performance of Plate Transducer -Transducer for Dynamic Measurement in Laboratory Specimens, Proc. the 11th International Summer Symposium, International Activities Committee, JSCE, 113-116, 2009.

Kuwano, R. and Kohata, Y., A case study of ground cave-in caused by subsurface erosion in large scale fill ground, Proc. the 8th International symposium on new technologies for urban safety of mega cities in Asia, USMCA, Inchon, October 2009, 261-267, 2009.

Ebizuka,H. and Kuwano,R., Trap Door Tests for Evaluation of Stress Distribution around a Buried Structure, Proc. the 8th International symposium on new technologies for urban safety of mega cities in Asia, USMCA, Inchon, October 2009, 245-250, 2009.

Wicaksono,R.I. and Kuwano,R., Study on Determination of Damping Ratio Based on Bender Element, Trigger Accelerometer, and Cyclic Loading Measurements, SEISAN-KENKYU, Vol.61, No.6, 117-122, 2009.

Suwal,L.P and Kuwano,R., Development of Disk Shape Piezo-ceramic Transducer for Elastic Wave Measurements in Laboratory Soil Specimens, SEISAN-KENKYU, Vol.61, No.6, 123-128, 2009.