

Wednesday 18th September 2013	
8:00	Registration
9:00-9:30	Opening and introductions (Main Conference Room) Chair: F.Kiya
	Drainage and Sanitation (Main Conference Room)
Chair: O.M.Gonçalves Vice-chair: M.C.Lee	
10:00	Water curtain behaviour in building drainage systems L.Jack (Scotland)
10:15	Proposal of a method for renewing drainage stack systems for use in super high-rise buildings and a method of improving drainage performance thereof M.Otsuka, T.Aoi, T.Kashiwa (Japan)
10:30	Propagation of bioaerosols from the building drainage system; cross-transmission, detection and prevention M.Gormley, D.A.Kelly (Scotland)
10:45	A study for understanding the drainage performance of a drainage stack system having an offset, and on a method for predicting the same R.Sugimoto, M.Otsuka (Japan)
11:00-11:20	Questions
11:20-11:40	Break
Chair: L.Jack Vice-chair: H.Kose	
11:40	Performance evaluation of experimental storm water infiltration systems: integrating the building drainage system R.P.A.Reis, M.S.O.Ilha (Brazil)
11:55	Application of computational fluid dynamics for prediction of clogging locations in building drainage system E.W.M.Lee, K.F.Yu, L.Xu (China)
12:10	Simulation of drainage system in building using particle-based numerical method L.Y.Cheng, L.H.Oliveira, E.H.Favero, I.B.Oliveira, O.M.Gonçalves (Brazil)
12:25	The drainline transport of solid waste in buildings P.DeMarco, J.Koeller, S.Martin, L.Swatkowski, C.White, M.Burgess (USA)
12:40-13:00	Questions
13:00-14:00	Lunch(Cafeteria)
Chair: R.P.A.Reis Vice-chair: L.Y.Cheng	
14:00	A study of 4 liter toilet with new flushing technology K.Watari, M.Otsuka, S.Kitamura (Japan)
14:15	Implications of reduced flush volumes in building drainage: An experimental study A.Silva-Afonso, J.Bernardo, C.Pimentel-Rodrigues (Portugal)
14:30	A study on the discharge characteristics of water-saving toilets using different amounts of flushing water and the evaluation of the carrying performance thereof H.Kagami, M.Otsuka, T.Nakato (Japan)
14:45	Analysis of influence of connection of traps on pneumatic pressure in stack pipe K.Fujimura, K.Sakaue, T.Toyama (Japan)
15:00-15:20	Questions
15:20-15:40	Break
Chair: A.Silva-Afonso Vice-chair: T.Nakano	
15:40	Experimental studies on the influence that excessive waste and form of fixture discharge pipes exert on seal water Y.Tanabe, K.Sakaue, M.Ogami, S.Okauchi (Japan)
15:55	Initial exploration concerning measure method of instantaneous flow in drainage stack system Z.Zhang, L.Zhang, P.Xi, M.Otsuka, Z.Zhao (China)
16:10	A study on a method of predicting the discharge characteristics of water-saving toilets when installed to the fixture drain K.Akiyama, M.Otsuka, H.Shigefuji (Japan)
16:25	Application of the siphonic drainage system to long plumbing intended for use in plants T.Mitsunaga, K.Sakaue, T.Inada, S.Yoshihama (Japan)
16:40-17:00	Questions

Wednesday 18th September 2013	
8:00	Registration
9:00-9:30	Opening and introductions (Main Conference Room)
Water and Energy Efficiency (Room No. 200)	
Chair: C.L.Cheng Vice-chair: K.Toyosada	
10:00	Water and energy consumption in urban and rural households C.Matos, A.Briga-Sá, S.Pereira, A.Silva-Afonso (Portugal)
10:15	A survey of energy and water consumption of university students H.Takata (Japan)
10:30	Simulations for per-capita water consumptions of appliances at secondary schools S.Y.Wong, L.T.Wong, K.W.Mui (China)
10:45	Analysis of factors on the energy consumption for hot water supply system of electrified houses in Hiroshima area D.Nishina, M.Ando, S.Murakawa, S.Kindaichi, M.Ishida (Japan)
11:00-11:20	Questions
11:20-11:40	Break
Chair: L.T.Wong Vice-chair: H.Takata	
11:40	Improving the individual circulated hot water supply piping system M.C.Lee, C.Y.Lai (Taiwan)
11:55	Different lever operations in relation to the hot water-saving effects of hot water-saving single-lever faucets T.Watanabe, M.Otsuka, M.Ishimoto (Japan)
12:10	Potential for CO₂ reductions in Viet Nam by the introduction of water-saving showers H.Yamazaki, K.Toyosada, Y.Shimizu, S.Dejima (Japan)
12:25	Research on the effect of showerhead characteristics on usage time and hot water volume K.Toyosada, T.Otani, Y.Shimizu, A.Yonemaru (Japan)
12:40-13:00	Questions
13:00-14:00	Lunch(Cafeteria)
Chair: D.A.Kelly Vice-chair: P.DeMarco	
14:00	Study on operational characteristics and performance evaluation of residential fuel cell combined heat and power systems S.Murakawa, Y.Hamada, H.Takata, H.Kitayama, M.Nabeshima (Japan)
14:15	An evaluation of the efficiency of hot water supply systems in cold districts in Japan H.Takamura, Y.Asano (Japan)
14:30	Evaluation of the performance of self-closing faucets after more than ten years of use in the campus of the University of São Paulo H.Tamaki, G.Silva, O.Gonçalves (Brazil)
14:45	Energy efficiency benchmarks of example roof-tank water supply system for high-rise low-cost housings in Hong Kong L.T.Wong, C.T.Cheung, K.W.Mui (China)
15:00-15:20	Questions
15:20-15:40	Break
Chair: M. Gormley Vice-chair: E.W.M.Lee	
15:40	The 2012 IAPMO green plumbing and mechanical code supplement – An overview P.DeMarco (USA)
15:55	A proposal for Asia Water Saving Guideline from the vision of CO₂ reduction potential C.L.Cheng, H.C.Chen, Y.Shimizu, K.Toyosada, W.J.Liao (Taiwan)
16:10	Preparations toward the realization of a carbon credit program by water saving in Asian countries Y.Shimizu, T.Otani, K.Toyosada (Japan)
16:25	The European Water Label: An analysis and review D.A.Kelly (Scotland)
16:40-17:00	Questions

Thursday 19th September 2013

Sustainability, Rainwater and re-use of Wastewater (Main Conference Room)

Chair: W. G. van der Schee Vice-chair: M.P.Nekrep

9:45	A step forward for sustainable water management in Slovak Republic Z.Karelova, D.Kaposztasova, Z.Vranayova (Slovakia)
10:00	The impact of roofs material on the quality and quantity of harvested rainwater in experimental conditions M.Ahmidat, Z.Vranayova, D.Kaposztasova (Slovakia)
10:15	Field experiment of the wastewater treatment system based on water-saving technology T.Sankai (Japan)
10:30	Study of the impact caused in sewerage networks by the "in situ" reuse of greywater A.M.Monteiro, I.Bentes, A.Silva-Afonso, C.Matos (Portugal)
10:45-11:05	Questions
11:05-11:25	Break

Water Demand and Supply (Main Conference Room)

Chair: Z.Vranayova Vice-chair: T.Sankai

11:25	Application and feasibility study of danger evaluation sheets for construction and maintenance in mainly water supply and drainage facilities H.Torihamma, T.Tanaka (Japan)
11:40	Water supply and drainage in future additive manufacturing building systems M.P.Nekrep, R.Vdovic (Slovenia)
11:55	The experiment on earthquake-proof performance of stainless steel piping with pipe fitting of the mechanical type for water supply K.Tsuneto, K.Sakaue, T.Aoki, H.Iizuka, Y.Yokote, T.Nakamura (Japan)
12:10	Temperature control in service shafts J.E.van Scholten, J.van Wolferen, W.G.van der Schee (Netherlands)
12:25-12:45	Questions
12:45-13:45	Lunch(Cafeteria)

Chair: M.Otsuka Vice-chair: D.Kaposztasova

13:45	A new approach to hygienic improvement of potable water installation systems K.Held, U.Petzolt, U.Alexandrowicz, M.Demiriz (Germany)
14:00	The technological innovation and subject of the direct connecting booster pump system of collective housing in Japan T.Nakano (Japan)
14:15	The modeling study on saving water motivation from water supply pressure control C.L.Cheng, S.C.Chung, Y.C.Chen, C.S.Lo, H.Y.Lin (Taiwan)
14:30	Examinations on water supply load calculation methods of office building: Comparison between conventional design methods and the simulation methods G.Z.Wu, K.Sakaue, K.Kojima, K.Fujimura, S.Murakawa, K.Hayakawa (Japan)
14:45-15:05	Questions
15:05-15:25	Break

Chair: M. Demiritz Vice-chair: U.Alexandrowicz

15:25	Development and application of IT platform for urban water circulation system S.Komiyama, H.Kose, Y.Sato, S.Sadohara (Japan)
15:40	Corrosion of hot water supply aluminized steel pipe by the reversal electric potential between aluminum and carbon steel T.Yamate, S.Murakawa (Japan)
15:55	Conceptual model for decision-making between centralized and decentralized non-potable water systems L.H.Oliveira, F.R.Correa, M.O.Santos (Brazil)
16:10-16:25	Questions
16:25-16:35	Closing session Chair: O. M. Gonçalves

Thursday 19th September 2013

Miscellaneous (Room No. 200)

Chair: L.H.Oliveira Vice-chair: D.Nishina

9:45	Problems of Taiwan public toilet along the road M.C.Lee, K.M.Chen, I.B.Shern, W.H.Lu , M.L.Lin (Taiwan)
10:00	A study of measurement performance evaluation for toilet systems with an uroflowmeter in hospital facility H.Yamasaki, M.Otsuka (Japan)
10:15	Design of toilet facilities for big events M.Milaszewski, K.Brauckhoff, U.Alexandrowicz, M.Demiriz (Germany)
10:30	Advantages of Bedside Flush Toilet for those who require nursing care T.Kurokawa, K.Matsushita, Y.Okuno, T.Motohashi, M.Otsuka (Japan)
10:45	Surveillance study on the Japanese bathing custom and act at the time of the bathing A.Hirose, A.Iio, K.Toyosada, Y.Shimizu, K.Sakaue (Japan)
11:00	Study on relationship between the subjective shower-feeling and the criteria for low-flow showerhead M.Okamoto, M.Sato, H.Yamazaki, Y.Shodai, C.L.Cheng, K.Sakaue (Japan)
11:15-11:45	Questions
11:45-12:05	Break (Main Conference Room)