

The 10th JWWA/WRF/CTWWA Water System Seismic Conference

Agenda

Day 1 (2017/10/18, Wednesday)	
08:00-09:00	Registration
09:00-09:15	Opening Ceremony
09:15-10:15	Keynote Presentations
09:15-09:35	Damage and Restoration of Drinking Water Systems Caused by 0206 Tainan Earthquake and Future Mitigation Measures Nan-Tzer HU, Chinese Taiwan Water Works Association
09:35-09:55	Lessons Learned from Damage to Drinking Water Supply System in the 2016 Kumamoto Earthquake in Japan Masakatsu MIYAJIMA, Kanazawa University
09:55-10:15	Developing a Seismic Resilient Pipe Network Using Performance Based Seismic Design Procedures Craig DAVIS, Los Angeles Department of Water and Power
10:15-10:40	Break (Posters and exhibitions)
10:40-12:10	Session 1: Pipe Testing, Analysis, and Design Chair: William F. HEUBACH
10:40-10:55	Verification of Design Method of Pipeline Crossing Fault with Earthquake Resistant Ductile Iron Pipe using Large-scale Split-box Test Keita ODA, Kubota Corporation
10:55-11:10	Design Strategies of Transmission Trunks across Normal Fault – A Case Study of Shanchiao Fault Chin-Ling HUANG, Taipei Water Department
11:10-11:25	Performance Test of Steel Pipe for Crossing Fault in United States Hayato NAKAZONO, JFE Engineering Corporation
11:25-11:40	Mitigating Risk to Underwater Crossings to Improve Water Supply Reliability: Two Case Studies Serge TERENCEFF, East Bay Municipal Utility District
11:40-11:55	Verification and Evaluation Method for the Seismic Performance of Potable Water Mains Lined with Cured-in-place Pipe (CIPP) Hiromasa ISHIZEKI, Ashimori Industry Co.
11:55-12:10	The Preliminary Study of the Impact of Liquefaction on Water Pipes Jerry J. CHEN, CECI Engineering Consultants
12:10-13:10	Lunch
13:10-14:25	Session 2: Seismic Preparedness and Emergency Response I Chair: Hiroshi NAGAOKA
13:10-13:25	Developing Business Continuity Management in Kobe City Waterworks Bureau Akinori SAKATA, Kobe City Waterworks Bureau

13:25-13:40	Cross-sector Infrastructure Planning for Water Purveyors and Critical Care Facilities Xavier IRIAS, East Bay Municipal Utility District
13:40-13:55	U.S. Approach to Share Seismic Awareness, Hazard Assessment and Mitigation Practices with a Larger Universe of Water and Wastewater Utilities David GOLDBLOOM-HELZNER, U.S. Environmental Protection Agency
13:55-14:10	‘Disaster-resistant waterworks model, connecting all to the water life’ and the countermeasures against natural disasters – examples sharing the specific measures of cooperation with major cities and mutual help to community groups Takuya NAKAGAWA, Sendai City Waterworks Bureau
14:10-14:25	Validation Accompanying the Introduction of a New Form of Energy (Fuel Cell System) Kazuki MASAKI, Yokohama Waterworks Bureau
14:25-14:50	Break (Posters and exhibitions)
14:50-16:05	Session 3: Evaluation of Water System Components Chair: Xavier IRIAS
14:50-15:05	Main Shock and After Shock Impact to Water System Seismic Fragility of Embankment Dams, Tank Reservoirs, and Large Diameter Pipelines Andrea CHEN, East Bay Municipal Utility District
15:05-15:20	Review of an Equation to Estimate Seismic Damage to Water Mains in Light of the 2016 Kumamoto Earthquake Yuko TSURUDA, Japan Water Research Center
15:20-15:35	Seismic Evaluation and Retrofit of Existing Water Pipe Bridges in Taipei Po-Ming CHENG, Sinotech Engineering Consultants
15:35-15:50	Damage Analysis of Air Valves of Drinking Water Pipeline in the 2016 Kumamoto Earthquake Taichiro INUI, Kanazawa University
15:50-16:05	Seismic Evaluation and Retrofit of Existing Distribution Reservoirs in Taipei City Chen-Hsiang LU, Sinotech Engineering Consultants
16:05-16:20	Break (Posters and exhibitions)
16:20-17:05	Session 4: Experiences and Lessons Learnt Chair: Takashi ASHIMORI
16:20-16:35	Napa Water System Earthquake Response: Like Fine Wine, the Right Blend of Self-help and Mutual Aid Joy ELDREDGE, City of Napa
16:35-16:50	Application of Road Excavation Management System for Seismic Disaster Preparedness Tin-Lai LEE, Taiwan Water Corporation
16:50-17:05	Concept of Waterworks in Disaster Relief based on the 2016 Kumamoto Earthquake Yosuke UNO, Osaka Municipal Waterworks Bureau
18:30-20:30	Conference Banquet

Day 2 (2017/10/19, Thursday)	
09:00-10:15	Session 5: Assessment and Information System Chair: Charles SCAWTHORN
09:00-09:15	Seismic Scenario Simulation of Water Supply Systems Chin-Hsun YEH, National Center for Research on Earthquake Engineering
09:15-09:30	An Investigation of the Seismic Performance of Portland Water Bureau's Water System in an M 9.0 Earthquake Michael SALING, Portland Water Bureau
09:30-09:45	Formation of Information Transfer Methods for Envisaged Disasters Kazunori IWAMOTO, Yokohama Waterworks Bureau
09:45-10:00	Application of a Mesh-based Earthquake Impact Assessment Tool for Water Supply System on Policy Support Bing-Ru WU, National Science and Technology Center for Disaster Reduction
10:00-10:15	Study Report of Priority Evaluation of Earthquake Resistance on Water Supply Facilities Focused on the Restoration Process of Water Supply Akihisa ISHIDA, NJS CO., LTD
10:15-10:45	Break (Posters and exhibitions)
10:45-12:00	Session 6: Seismic Preparedness and Emergency Response II Chair: Lap-Loi CHUNG
10:45-11:00	The Prioritized Pipeline Maps for Emergency Restoration Keita KATAE, Yokohama Waterworks Bureau
11:00-11:15	Emergency Activity during a Disaster by the Public-Private Cooperation in Nagoya City Minoru SAKAGUCHI, Nagoya City Waterworks & Sewerage Bureau
11:15-11:30	Seismic Preparedness and Emergency Response of Water Systems — Visions and Experiences Lap-Loi CHUNG, National Center for Research on Earthquake Engineering
11:30-11:45	Crisis Management by Waterworks Emergency Service Unit – Quick Response and Prompt Securement of Water Supply in the Event of Disasters Wataru KIGA, Bureau of Waterworks, Tokyo Metropolitan Government
11:45-12:00	The Effectiveness of the Dispatch of Support Staff to Small Waterworks Takuya KUDO, Niigata City Waterworks Bureau
12:00-13:00	Lunch (Tour of NCREE Tainan Lab)
13:00-14:15	Session 7: Pipeline Enhancement Strategy Chair: Osamu KAWAGUCHI
13:00-13:15	Determining Water Distribution System Pipe Replacement Given Random Defects – Case Study of San Francisco's Auxiliary Water Supply System Charles SCAWTHORN, SPA Risk LLC
13:15-13:30	Seismic Screening of Large Water Pipelines for TWC's Seismic Improvement Program Gee-Yu LIU, National Center for Research on Earthquake Engineering
13:30-13:45	Mitigation of Potential Impacts of Seismic Events on a Regional Water Distribution System Gordon JOHNSON, Metropolitan Water District of Southern California

13:45-14:00	TWC's Thoughts on Implementing Seismic Improvement to Large Water Pipelines Sheng-I Tseng, Taiwan Water Corporation
14:00-14:15	Mitigating Water System Pipeline Damage – Seattle Public Utilities Case Study William F. HEUBACH, Seattle Public Utilities
14:15-15:10	Panel Discussion I Topic: How are you going to balance seismic risk with mitigation cost? <i>Strategy and practices</i>
15:10-15:40	Break
15:40-16:30	Panel Discussion II Topic: How are you going to react to an Earthquake Event? <i>Damage control strategies</i> <i>ICT system applications</i> <i>Public relation contents</i> ...
16:30-16:40	Closing Ceremony
16:40-17:00	Group Photo