6th Taiwan-US-Japan Workshop on Water System Seismic Practices Technical Program

October 14 (Wednesday)	
08:30-09:00	Registration
09:00-09:20	Opening Ceremony
Keynote Speeches Chair: Dr. Shen-Hsien Chen	
09:20-09:40	Water supply facilities damages by the 1999 Chi-Chi earthquake and the aftershock restoration works Dr. Tsung-Shen Liao, President, Chinese Taiwan Water Works Association, Taiwan
09:40-10:00	Integration of seismic modeling software with emergency response software Dr. Xavier Irias, East Bay Municipal Utility District, US
10:00-10:20	Recent topics related to seismic safety of dams Prof. Tatsuo Ohmachi, Tokyo Institute of Technology, Japan
10:20-10:40	Break
Session 1: Seismic Mitigation Measures (I) Chairs: Prof. Hiroshi Nagaoka and Prof. Jiin-Song Tsai	
10:40-10:55	A sensor network for real-time damage location and assessment Prof. Masanobu Shinozuka, University of California at Irvine, US
10:55-11:10	The project of reinforcement of embankment for measure against earthquake of the Murayama-Shimo Reservoir Mr. Akira Suzuki, Bureau of Waterworks, Tokyo Metropolitan Government, Japan
11:10-11:25	Strategy of Shihmen Reservoir high turbidity Dr. Shen-Hsien Chen, Water Resources Agency, MOEA, Taiwan
11:25-11:40	Earthquake-resistant distribution pipeline project in Nagoya City Mr. Toshichika Matsui, Waterworks & Sewerage Bureau, City of Nagoya, Japan
11:40-11:55	Memphis Light, Gas and Water seismic planning: the role of tanks, generators, and distribution system piping Ms. Chandrika Winston, Memphis Light, Gas and Water, US
11:55-12:10	Aged-pipeline renewal plan with enhancing seismic upgrade - in case of Bureau of Public Enterprises, Ibaraki Prefecture Mr. Hayato Nakazono, Tokyo Engineering Consultants Co., Ltd., Japan
12:10-13:00	Lunch

Session 2: Seismic Analysis, Design and Retrofit (I) Chairs: Mr. David L. Pratt and Mr. Nan-Tzer Hwu	
Magic R: seismic design of water tanks	
Mr. John M. Eidinger, G&E Engineering Systems Inc, US	
Effects of sloshing of water in receiving water tank on water distributio	n system
13:15-13:30 during earthquake	
Prof. Masakatsu Miyajima, Kanazawa University, Japan	
From Chi-Chi earthquake to study about aseismic measures and disas	ster crisis
13:30-13:45 management in Taipei	
Mr. Chin-Tse Cheng, Taipei Water Department, Taiwan	
Study for the safety of ductile iron pipe earthquake-resistant joint in ma	assive
13:45-14:00 earthquake	
Mr. Yoshinori Itani, Kubota Corporation, Japan	
The Italian contribution to the analysis of the effects of earthquakes or	water
14:00-14:15 supply systems: practical experiences and theoretical investigations	
Prof. Mario Rosario Mazzola, Federico II University, Italy	
14:15-14:30 Break	
Session 3: Seismic Risk Analysis, Assessment and Management Chairs: Mr. John M. Eidinger and Mr. Toru Tomioka	
Estimation of seismic resistivity and earthquake-resistant measures of	water
14:30-14:45 distribution facilities in the Hachinohe Regional Water Supply Authority	/
Mr. Noboru Murakami, Hachinohe Regional Water Supply Authority, Japan	
Hydraulic performance analysis of water systems under major earthqu	ıakes
14:45-15:00 Dr. Gee-Yu Liu, National Center for Research on Earthquake Engineering, To	aiwan
Simulation of Los Angeles water supply and distribution in response to	M7.8 San
15:00-15:15 Andreas earthquake	
Dr. Craig A. Davis, Los Angeles Department of Water and Power, US	
Simulation of the restoration process based on estimation of seismic of	lamage to
15:15-15:30 distribution pipes	
Mr. Yuki Sagara, Osaka Municipal Waterworks Bureau, Japan	
The quantitative risk analysis of water pipe bridge on earthquake disas	ster - case
study of Sindian Water Pipe Bridge	
Dr. Siao-Syun Ke, National Science and Technology Center for Disaster Redu	ıction,
Taiwan	
A reasonable approach to the seismic assessment of water supply fac	ilities
15:45-16:00 Mr. Hayato Yokono, Kobe Municipal Waterworks Bureau, Japan	
16:00-16:15 Break	

Session 4: Emergency Response and Recovery Chairs: Prof. Masakatsu Miyajima and Mr. Yang-Long Wu	
16:15-16:30	Influence of organizational structure on effectiveness of post-disaster
	management
	Prof. Jiin-Song Tsai, National Cheng Kung University, Taiwan
	A regional water supplier's seismic response plan as part of the organization's
16:30-16:45	overall emergency management plan
	Mr. Wally Lieu, Metropolitan Water District of Southern California, US
16:45-17:00	Introduction of emergency water supply facilities in Taipei metropolitan
	Mr. K.P. Chang, Taipei Water Department, Taiwan
17:00-17:15	Practical reinforcement action of risk and crisis management with participatory
	planning using a workshop method - emergency response to natural disasters
	Mr. Masao Kadowaki, Hanshin Water Supply Authority, Japan
17:15-17:30	Earthquake disaster response project for water facility at Yilan area
	Mr. Bing-Xin Wang, Taiwan Water Corporation, Taiwan
18:30-21:00	Conference Dinner (at Howard International House Taipei)

October 15 (Thursday)		
Session 5: Seismic Mitigation Measures (II) Chairs: Prof. Masanobu Shinozuka and Mr. Chin-Tse Cheng		
09:00-09:15	Continuous earthquake preparedness – strategic investment of resources for optimal earthquake response	
0,100 0,110	Mr. Steve Welch, Contra Costa Water District, US	
00:15 00:30	Anti-seismic measures of water supply utility in great Taipei area	
09:15-09:30	Ms. Yu-Chih Chou, Chinese Taiwan Water Works Association, Taiwan	
09:35-09:45	The present status, problems and promoting procedures for the measures	
	against earthquake of water supply facilities	
	Mr. Munetaka Abe, Japan Water Works Association, Japan	
09:45-10:00	A strong community outreach plan will facilitate the implementation of complex	
	seismic upgrade programs	
	Mr. David L. Pratt, East Bay Municipal Utility District, US	
10:00-10:15	Activities related to earthquake-proofing of drinking-water infrastructure in the	
	Japan Water Research Center	
	Mr. Mikita Amano, Japan Water Research Center, Japan	

10:15-10:30	San Francisco Public Utilities Commission water system improvement program
	and its seismic requirements
	Mr. Luke Cheng, San Francisco Public Utilities Commission, US
10:30-10:50	Break
Session 6: Seismic Analysis, Design and Retrofit (II) Chairs: Mr. Steve Welch and Dr. Gee-Yu Liu	
10.50.11.05	Evaluation of effects of recent strong motion records on water supply facilities
10:50-11:05	Dr. Kimiyasu Ohtake, Nippon Jogesuido Sekkei Co., Ltd. Japan
11.05 11.20	Study on the response of joint of large diameter pipes caused by earthquake
11:05-11:20	Dr. Jwo-Ran Jerry Chen, CECI Engineering Consultants, Inc., Taiwan
11 20 11 25	Development of high seismic performance pipe for crossing active faults
11:20-11:35	Mr. Nobuhiro Hasegawa, JFE Engineering Corporation, Japan
11.25 11.50	Seismic upgrades of Portland Water Bureau's water supply system
11:35-11:50	Mr. Keith Walker, Portland Water Bureau, US
11.50 12.05	Replacement of ductile iron pipes installed in early days
11:50-12:05	Mr. Kazuhiko Fujimura, Tokyo Waterworks Service Co., Ltd., Japan
12.05.12.20	Seismic response of San Pablo Reservoir drain intake
12:05-12:20	Mr. David Lee, East Bay Municipal Utility District, US
12:20-13:00	Lunch
13:00-13:10	Group Photos (outside NCREE lobby)
13:10-13:30	NCREE Laboratory Tour
Penal Discussion Topic: Business continuity management of water supply facilities after disaster Chairs: Prof. Ban-Jwu Shih, Dr. Craig A. Davis and Prof. Tatsuo Ohmachi	
13:30-14:30	Discussion I
14:30-14:50	Break
14:50-16:00	Discussion II
16,00 16,20	Concluding Remarks
16:00-16:20	Dr. Tsung-Shen Liao, President, Chinese Taiwan Water Works Association, Taiwan
16:40-18:00	Tour: Museum of Drinking Water (at Taipei Water Park)
18:30-20:30	Reception

October 16 (Friday)	
08:00	Departure for the Shih-Kang Dam
10:00-10:30	Field visit to the Dam
10:30-11:00	Briefing & visit at the Exhibition Hall
11:00	Departure for the Feng-Yuan Purification Plant
11:10-11:40	Field visit to the Plant
11:40-12:00	Briefing of the Plant
12:00-12:30	Discussion
12:30-14:00	Lunch
14:00-	Departure for the 921 Earthquake Museum of Taiwan
14:30-16:00	Organized tour of the Museum
16:00	Departure for Taipei

October 17 (Saturday)	
08:00	Departure for the Fei-Tsui Reservoir
08:40-09:10	Briefing of the Reservoir
09:10-10:00	Field visit to the Dam
10:00	Departure for the Zhi-Tan Purification Plant
10:30-11:00	Briefing of water purification process and auto control system
11:00-11:20	Field visit to the 5 th rapid filter system
11:20-11:40	Field visit to the sludge treatment station
11:40	Departure for lunch