

Civil Engineering Conference in the ASIAN Region CECAR7						
Monday	12:00 - 4:00 p.m.	Registration-Tapa Ballroom Foyer				
TUESDAY, AUGUST 30	7:00 a.m. - 3:00 p.m.	Registration - Tapa Ballroom Foyer				
	9:00 a.m. -12:30 p.m.	Pre-conference Workshop: Engineering Ethics Workshop: Discussion of Case Studies - Honolulu Suite #1				
	1:30 - 5:00 p.m.	Pre-conference Workshop: Natural Hazards Risk and Management - Honolulu Suite #1				
	1:30 - 5:30 p.m.	Technical Tour 1-Honolulu Water Reclamation Facility	Technical Tour 2 -Covanta Honolulu (HPOWER) Recycling & Waste Processors		Technical Tour 3- Honolulu Railway Tour	
	7:00 a.m. - 5:30 p.m.	Registration - Tapa Ballroom Foyer				
8:00 - 10:00 a.m.	Opening Plenary Session - Tapa Ballroom- Salon 1 Opening Plenary Session - Chair: Udai P. Singh (ASCE) Welcome Address – U.S. Congresswoman Tulsi Gabbard (Hawaii, USA) Kyoto Declaration - Yumio Ishii (JSCE) Innovative Applications of Fiber Composites and Large-scale 3D Printer on Civil Structures - Sung Woo Lee, Kookmin University, Seoul, Korea Bangladesh Towards a Sustainable Flood Management and Resilience Future - Munaz Ahmed Noor, Islamic University of Technology, Boardbazar, Gazipur, Bangladesh Remarks by Presidents of ACECC Member Societies					
10:00 - 10:45 a.m.	Poster Session #1 & Networking Break - Tapa Ballroom Foyer					
10:45 a.m. - 12:45 p.m.	Concurrent Technical Sessions					
Track	TRACK: Environmental & Water Resources	TRACK: Transportation	TRACK: Infrastructure Management	TRACK: Natural Disaster	TRACK: Geotechnical	TRACK: Structural
Room	Honolulu Suite 1	Honolulu Suite 2	Honolulu Suite 3	Iolani Suite 3&4	Iolani Suite 6&7	Tapa Ballroom 1
Session 1	1A: Environmental Health and Water Quality	1B: Pavement Rehabilitation and Life Cycle Assessment	1C: BIM and Beyond	1D: Tsunami Disaster Mitigation	1E: Ground Improvement	1F: Structural Analysis and Design
Moderator	Bijay Panigrahi (ASCE)	Anthony Bartolomeo (ASCE)	Sang-ho Lee (KSCE)	Mitsu Okamura (JSCE)	Chiwan Hsieh (CICHE)	Douglas Sereno (ASCE)
	Sustainable Provision of Water and Sanitation Services in a Resource Constrained Environment - Neil Macleod, Susan Mercer and Chris Buckley (University of KwaZulu-Natal, Durban, South Africa)	Solutions for Urban Traffic Issues by ITS Technologies - Hiroshi Makino, Koichi Sakai (Ministry of Land, Infrastructure, Transport and Tourism, Tsukuba City, Ibaraki, Japan), Takahiro Tsukiji, Shunsuke Kamijo, Tomoaki Mizutani and Kazuya Tamada	Current Status of Civil Construction Information Modeling (CIM) Initiative and Projects in Japan - Nobuyoshi Yabuki (Osaka University, Osaka, Japan)	Tsunami Source of the 2014 Iquique, Chile, Earthquake and the Tsunami Potential on the North Chilean Coast - Yoshihiro Okumura (Kyoto University, Kyoto, Japan), Tomoyuki Takahashi (Port and Airport Research Institute, Yokosuka, Kanagawa, Japan) and Tomohiro Takagawa	Nanoparticle-coated Surface to Capture Migrating Fine Particles - Xianglei Zheng and Jaewon Jang (Arizona State University, Tempe, Arizona, U.S.A.)	Experimental Study on Highly-Flowable Strain Hardening Fiber Reinforced Concrete Columns Subjected to Lateral Cyclic and High Axial Loading - Wen-Cheng Liao (National Taiwan University, Taipei, Taiwan) and Li-Wei Tseng
	Hydrologic and Hydraulic Evaluation of a West Maui Watershed and its Sediment Retention Basin with Potential Retrofits to Reduce Nearshore Pollution During Storm Events - Roger W. Babcock, Jr. (University of Hawaii at Manoa, Hawaii, U.S.A.), Kim Falinski, Jeffrey Nielsen and Yanling Li	Optimal Policies for Pavement Maintenance, Resurfacing and Reconstruction - Jinwoo Lee (New York University Abu Dhabi, Abu Dhabi, United Arab Emirates) and Samer Madana	Implementation of BIM for Bridge Design - A Case Study - Yi-Min Chen (Sinotech Engineering Consultants, Ltd., Taipei, Taiwan), Chih-Wen Chen and Shang-Hsien Hsieh (National Taiwan University, Taipei, Taiwan)	Factors Affecting Tsunami-induced Overturning of Building in the 2011 Great Tohoku Earthquake - Michtaka Ishida, Kohji Tokimatsu (Tokyo Institute of Technology, Tokyo, Japan) and Shusaku Inoue (Takenaka Corporation, Osaka, Japan)	The Effectiveness of Shear Strength Prediction Models for Fiber-Reinforced Clay - Asileh Abou Diab (American University of Beirut, Beirut, Lebanon), Shadi Najjar (American University of Beirut, Beirut, Lebanon) and Salah Sadek	Evaluation of Strengthening Effect on RC Beams by CFRP Grid with PCM Shotcrete Method - Rui Guo (Kyushu University, Fukuoka, Japan), Shinichi Hino, Shigetada Hatakeyama, Atsuya Komori (Nippon Steel & Sumikin Materials Co., Ltd., Tokyo, Japan) and Kenchi Taniguchi
	Environmental Impacts of Ballast Water Transfer for Maritime Freight Transport - Claudia Gunsch (Duke University, Durham, North Carolina, U.S.A.) and William Gerhard	A Stochastic Control Framework to Deal with Model Uncertainty in the Management of Transportation Infrastructure Systems - Pablo L. Durango-Cohen (Northwestern University, Evanston, Illinois, U.S.A.) - 334	Development of a Visualization 3D Management Platform in Construction - Fu-Chi Siao, Chih-Chuan Lin (CECI Engineering Consultants Inc., Taipei, Taiwan), Wan-Li Lee, Hsiang-Wai Lu and Jui-Yu Su	Effects of Partial Breaching in Coastal Defense Lines on Tsunami Inundation - Takashi Tomita and Yu Chida (Port and Airport Research Institute, Yokosuka, Kanagawa, Japan)	Development of Low CO ₂ Emission Soil Improvement Using High-Slag Cement - Takao Kono (Takenaka Corporation, Inzai, Chiba, Japan), Masamichi Aoki and Toshio Yonezawa	A Study on Bonding Mechanisms of Epoxy Adhesive and PCM of the Strengthening Method for RC slabs - Atsuya Komori (Nippon steel and Sumikin materials Co., Ltd., Tokyo, Japan), Akira Kobayashi and Tadashi Abe
	DEWATS as a Modular and Scalable Solution for Domestic Wastewater Treatment - Chris Buckley (University of KwaZulu-Natal, Durban, South Africa) and Björn Pietruschka	Development of Pavement Life Cycle Analysis Using Regional Data - Hasan Ozer, Seung Gu, Rebekha Yang and Mojtaba Ziyadi	Advances of Real-time Simulation, Remote Sensing, and Geo-informatics in Assessing Tsunami Impact - Shunichi Koshimura (Tohoku University, Sendai, Japan)	Study on Estimation of Run-up Tsunami Force Acting on a Vertical Wall Structure - Yukimobu Oda (Faisei Corporation, Yokohama Japan), Takahide Honda, Kazunori Ito and Tomoyuki Takabatake	Development of New Vertical Drain for Ground Improvement - Seok-Won Lee (Konkuk University, Seoul, South Korea), Chang-Kun Ahn and Seong-Moo Her	Examinations on the Load-carrying Capacity of RC Beams that have Undergone Combined Deterioration from Fatigue and Frost Damage - Hiroshi Hayashida (Civil Engineering Research Institute for Cold Region, Sapporo, Hokkaido, Japan), Yasuhiko Sato and Tamon Ueda
	Novel Low-cost Remediation Technologies for Metal Contaminated Agricultural Soils in China - Barbara A. Zeeb, David S. Carnegie, Steven V. Rose (MALROZ Engineering Inc., Kingston, Ontario, Canada) and He Chen	Network Level Example Cast Study: Optimization of Roughness for Greenhouse Gas Emissions - John Harvey		Detailed Design of Tsunami Shelter - Takahiro Kukidome (Oriental Consultants Co., Ltd., Tokyo, Japan), Shogo Otake (Oriental Consultants Co., Ltd., Tokyo, Japan), Tsutomu Takane, Takeshi Utsunomiya and Shuji Onami	Experimental Study and Numerical Simulation of Electro-Osmotic Consolidation for Soft Soil Improvement - Liming Hu (Tsinghua University, Beijing, China), Hui Wu, Welling Wu and Qingbo Wen	Flexural Capacity of the Precast RC Beams-column Connection Using CFRP Sheet - Rudy Djalaluddin (Hasanuddin University, Makassar Indonesia), Harmonis Rante and Rita Irmawati

	Nickel and Manganese Ferrite Cored Dendrimers for Adsorption of Heavy Metal Ions - Hyun-Kyung Kim, Hye-Ran Kim and Jae-Woo Park (Hanyang University, Seoul, South Korea)	Multidimensional Evaluation of Mutual-Dependent Deterioration Processes - Kiyoshi Kobayashi, Kiyoyuki Kaito and Daijiro Mizutani		Structure Format Selection for Shelter-type Tsunami Evacuation Facilities - Shogo Otake (Oriental Consultants Co., Ltd., Tokyo, Japan), Takahiro Kukidome (Oriental Consultants Co., Ltd., Tokyo, Japan) and Kazuhiro Hattori	Geotechnical Properties of Bamboo Chips-Soil Mixtures - Hiroaki Shigematsu (National Institute of Technology, Tsuibata, Ishikawa, Japan), Yudai Sakura and Yoshimi Tanida	Engineering Innovation in Design of Large Span Conveyor Gantry Structures - Ahmad Nazari
12:45 - 1:45 p.m.	Poster Session #1 (Continued) Tapa Ballroom Foyer & Lunch- Tapa Ballroom -Salon 2					
1:45 - 3:15 p.m.	Concurrent Technical Sessions					
Track	TRACK: Environmental & Water Resources	TRACK: Transportation	TRACK: Geotechnical	TRACK: Sustainability	TRACK: Structural	
Room	Honolulu Suite 1	Honolulu Suite 2	Honolulu Suite 3	Iolani Suite 3&4	Iolani Suite 6&7	
Session 2	2A: Innovative Technologies in Water Resources	2B: Rail Transit Projects in Honolulu, Japan and Thailand	2C: Geohazards	2D: Energy Efficient Solutions for Sustainable Facilities	2E: Bridge Design	
Moderator	Paul Mitchell (EA)	David G. Leverenz (ASCE)	Yanrong Li (China)	Luh-Maan Chang (CICHE)	Iswandi Imran (HAKI)	
	Evaluation of Household Water Treatment Devices for Removal of Waterborne Pathogens from Drinking Water - Rajib Sinha (CB&I Federal Services, Cincinnati, Ohio, U.S.A.), Craig Patterson, Skand Saksena, Richa Pugalai, John Lee Heckman, Prakhar Gupta and Alpna Divekar	Building the First Driverless Metro System in the United States - Ryan Tam and Justin Garrod (Honolulu Authority on Rapid Transit, Honolulu, Hawaii, U.S.A.)	Study on the Mechanisms of Debris Flows That Damaged Flexible Barriers in the Channel of Fraser Hill, Malaysia - Senro Kuraoka (Nippon Koei Co., Ltd., Tsukuba-shi, Ibaraki, Japan), Lim Tien Sze, Che Hassandi Abdullah, Suhaimi Jamaludin, Mohamad Nazri and Norhidayu Binti Kasim	A Practical Assessment Model for Sustainable Transportation - Panos Prevedouros (University of Hawaii at Manoa, Honolulu, Hawaii, U.S.A.) and Lambros K. Mitropoulos	Numerical Simulation of a Multi-span Extradosed Cable-stayed Bridge Employing Cable-Sliding Aseismic Friction Bearing for Seismic Protection - Shengze Tian (Tongji University, Shanghai, China), Wancheng Yuan (Tongji University, Shanghai, China), Haolin Yang and Han Li	
	Peracetic Acid as a Green Disinfectant for Combined Sewer Overflows - Craig Patterson (U.S. EPA, Cincinnati, Ohio, U.S.A.), Bob Freeborn, John Mazluk, Daniel J. Murray, Vasudevan Namboodiri, Donald A. Schupp and Bruce Smith	Integrating Transit Mobility and Sustainable Community Development into Hawaii's Future - Ryan Tam (Honolulu Authority on Rapid Transit, Honolulu, Hawaii, U.S.A.) and Justin Garrod	Study on the Utilization of Fault Tree for Preventative Maintenance of Reinforced Soil Walls - Hiroaki Miyatake (Public Works Research Institute, Tsukuba, Japan) and Tomohiro Fujita	A Statistical Model on the Performance of Fly Ash-Based Geopolymer Concrete - Yanping Li, Lin Shen (University of Hawaii at Manoa, Honolulu, Hawaii, U.S.A.), Li Ai and Reza Mirmoghataee	Experimental Investigation on Seismic Response of Bridges Considering Scour Effect - Yu Shang (Tongji University, Shanghai, China), Yan Xu (Tongji University, Shanghai, China), Aijun Ye (Tongji University, Shanghai, China) and Alice Alipour	
	Evaluation of an Innovative Approach to Validation of Ultraviolet (UV) Reactors for Disinfection in Drinking Water Systems - Jeffrey Adams (U.S. EPA, Cincinnati, Ohio, U.S.A.)	Current Status of TC12 (Railway Technology Renewal and Expansion in Asian Region) - Jun Izawa (Japan)	Appropriate Schemes for Assessment of Debris Flow Spreading Based on an Empirical Approach and Case Studies in Gyeonggi Province, Korea - Sinhang Kang (Korea Advanced Institute of Science and Technology, Daejeon, South Korea), Seung-Rae Lee, Joon-Young Park and Deukhwan Lee	Micro Generation and Customer Side Smart Grid Infrastructures - Thomas M. Korman (California Polytechnic State University, San Luis Obispo, California, U.S.A.)	Simple Bridge-Weigh-In-Motion Using Transverse Stiffeners - Eiki Yamaguchi (Kyushu Institute of Technology, Tobata, Kitakyushu, Japan), Masayoshi Kibe and Kazuki Yamamoto	
	Rainwater Harvesting Techniques - Historical, Regional and Scales of Applications - Emmanuel Nzewi (Prairie View A&M University, Prairie View, Texas, U.S.A.)	Current Status of Railway Infrastructures in Thailand - Nakorn Chantasorn (Thailand)	Shaking Table Tests of Liquefaction in Sand-Clay Layered Ground and the Effects of the Ground Compaction Methods - Takaaki Kobayashi (Port and Airport Research Institute, Yokosuka, Kanagawa, Japan), Shinji Sassa, Kelta Watanabe and Hiroyuki Yamazaki	Compost Waste Heat/Solar Tower Prototype Test Facility for a Sustainable Infrastructure - Kevin R. Anderson (Cal Poly Pomona, California, U.S.A.), Yasser Salem, Souha Jouhar, Saman Bahrani, Kaian Wang, Ali Sharbat, Maryam Shafahi and Reza Baghaei Lakeh	Development of Sliding Slab Track to Reduce Track-Bridge Interaction - Kyoung-Chan Lee (Korea Railroad Research Institute, Uiwangsi, Gyeonggi-do, South Korea), Seong Yup Jang and Jungwee Lee	
	Application of Stainless Steel Nanotubes for Organic Compounds Removal - Hanuk Lee, Taehyup Oh and Jae-Woo Park (Hanyang University, Seoul, South Korea)	Assessing the Stabilizing Mechanisms of Unbound Road Pavements - Dilan Robert (RMIT University, Melbourne, Australia), Rintu Renjith, Sujeeva Setunge, Brian O'Donnell, Dilshan Hewawasame and Ernst Tan				
		Asian Railway Technical Forum - Toru Miyauchi (Japan)				
3:15 - 4:00 p.m.	Poster Session #1 (Continued) & Networking Break -Tapa Ballroom Foyer					
4:00 - 5:30 p.m.	Concurrent Technical Sessions					
Track	TRACK: Environmental & Water Resources	TRACK: Structural	TRACK: Infrastructure Management	TRACK: Geotechnical	TRACK: Natural Disaster	
Room	Honolulu Suite 1	Honolulu Suite 2	Honolulu Suite 3	Iolani Suite 3&4	Iolani Suite 6&7	
Session 3	3A: Challenges in Water Management	3B: Corrosion of Structural Elements	3C: Towards the Reduction of Infrastructure	3D: Foundations	3E: Performance-Based Engineering for Natural Hazards	
Moderator	Ashok Pandit (ASCE)	Eiki Yamaguchi (JSCE)	Thomas W. Smith, III (ASCE)	Ernesto S. De Castro (PICE)	Sarosh Hashmat Lodi (IEP)	

	<p>Estimation of Carbon Budget and Storage in an Artificial Salt Marsh Constructed in Urban Coastal Area - Toru Endo (Osaka City University, Osaka, Japan), Yusuke Nakano and Noriaki Ikada</p>	<p>Prediction of Cover Crack Propagation on Corroded RC Members - Aris Aryanto (Institut Teknologi Bandung, Bandung, Indonesia) and Yasuji Shinohara</p>	<p>ASCE Grand Challenge and the Role of Innovation in Reducing Lifecycle Infrastructure Costs - Anthony Bartolomeo (Pennoni, Philadelphia, Pennsylvania, U.S.A.)</p>	<p>Load-Carrying Capacity of Stone Column Encased with Geotextile - Anil Kumar Sahu and Ishan Shankar (Delhi Technological University, Delhi, India)</p>	<p>Comparison of the USA, China and Japan Seismic Design Procedures - Guangren Yu and Gary Y.K. Chock (Martin & Chock, Inc., Honolulu, Hawaii, U.S.A.)</p>
	<p>Planning and Engineering of Coastal Flooding Mitigation Works of an Airport Runway in a Storm-tracked Island - Eric C. Cruz and Edgardo P. Kasilag, II (AMH Philippines Inc., Quezon City, the Philippines)</p>	<p>A Study on Fatigue Durability of RC Slab with Metal-Grid Instead of Steel Re-bar - Tadashi Abe, Kazuhiko Minakuchi (Nihon University, Narasino-shi, Chiba, Japan), Ming-Chien Hsu and Keesuke Shiota</p>	<p>Evaluating Alternative Pavement Materials - Saeed Dhafer Alqadhi (Purdue University, West Lafayette, Indiana, U.S.A.), Tariq Usman Saeed (Purdue University, West Lafayette, Indiana, U.S.A.) and Samuel Labi</p>	<p>Experimental Assessment of p-y Curves for Piles in Saturated Medium Dense Sand at Shallow Depths - Xiaowei Wang (Tongji University, Shanghai, China), Aijun Ye and Jianzhong Li</p>	<p>Probabilistic Mapping of Storm-induced Coastal Inundation for Climate Change Adaptation - Kwok Fai Cheung (University of Hawaii, Honolulu, Hawaii, U.S.A.), Yoshiki Yamazaki, Volker Roeder, Ning Li and Gary Y.K. Chock (Martin & Chock, Inc., Honolulu, Hawaii, U.S.A.)</p>
	<p>Developing a GIS-based Tool for Evaluating Adaptation Strategies for Highway and Rail Facilities in Taiwan - Yan-Hung Chou (THI Consultants, Inc., Taipei, Taiwan), Amy Yi-chin Hu (THI Consultants, Inc., Taipei, Taiwan), Yi-Fai Chen and Chiung-Wen Chang</p>	<p>The Influence of Fly Ash on Bond Strength Property between Corroded Reinforcement Steel Bars and Concrete - Masayuki Tsukagoshi (Tokushima University, Tokushima City, Tokushima, Japan), Yasuji Shinohara, Hiroki Sugii and Takao Ueda - 67</p>	<p>Targeted Hits for Modal Parameter Estimation and Rating - John DeVitis, David Masceri, Nicolas Romano, John Braley, Emin Aktan and Franklin L. Moon (Rutgers, The State University of New Jersey, Piscataway, New Jersey, U.S.A.)</p>	<p>Numerical Load Testing of a Geosynthetic Reinforced Soil - Landon H. Kaya (University of Hawaii at Manoa, Honolulu, Hawaii, U.S.A.), Phillip S.K. Ooi, Teruo Nakai, Michael T. Adams, Jennifer E. Nicks and Hossain Md. Shahin</p>	<p>Rapid Prediction of Waves, Surge, and Runup for Coastal Storms - Alexandros Tafiandis, Andrew B. Kennedy, Tracy Kijewski-Correa, Joannes Westerink and Kwok-Fai Cheung (University of Hawaii, Honolulu, Hawaii, U.S.A.)</p>
	<p>Can River Restoration Projects Make Community and Professionals Sustainable? - A Case Study of a Small Urban River Restoration in Japan - Yoh Sasaki (Waseda University, Tokyo, Japan)</p>	<p>Effect of Uniform Corrosion on Tensile Load-Carrying Capacities of Steel Specimens - Farham Memarzadeh (Islamic Azad University, Najafabad, Isfahan, Iran)</p>	<p>ICT Innovations for Reducing Infrastructure Lifecycle Cost - H. Sohn (Korea Advanced Institute of Science and Technology, Daedeok Innopolis, Daejeon, South Korea), Hyung Jin Lim, Ji-Min Kim, Suyoung Yang, Jun Lee and Yongtak Kim</p>	<p>Reinforced Foundation Ground in Embankment Site Subjected to Consolidation - Tenuo Nakai (Geo-Research Institute, Nagoya, Japan), Yusaku Isobe and Hossain M. Shahin</p>	<p>A Study on Risk Management for Building Property by Cyclone Risk Using Probabilistic Wind Model - Hiroyuki Watabe (National Defense Academy of Japan, Yokosuka, Kanagawa, Japan), Harumi Yashiro and Sei'ichiro Fukushima -107</p>
	<p>A Study on the Changes of Return Period for the Nonstationary GEV Model - Hyunjun Ahn (Yonsei University, Seoul, South Korea), Jun-Haeng Heo, Sunghun Kim and Kyungwon Joo</p>	<p>Optimization of FRP Strengthening Technique for Concrete Structures - M. Umair Saleem (King Faisal University, Al-ahsa, Saudi Arabia), Muhammad Nasir Amin and Nauman Khurram</p>	<p>Technical Review of Optimal Monitoring Technology for Ground Subsidence Prevention - Byoungil Choi (Korea Infrastructure Safety Corporation, South Korea), Hongkyoon Kim, Eunkeum Kwon, Yongsoo Kim and Wonjoo Park</p>	<p>Sustainable Design of Pile Load Test Programs Using Reliability-Based Principles - Shadi Najjar (American University of Beirut, Beirut, Lebanon), George Saad and Youmna Abdallah</p>	<p>The ASCE 7 Tsunami Loads and Effects Design Standard for the U.S. - Gary Y.K. Chock (Martin & Chock, Inc., Honolulu, Hawaii, U.S.A.)</p>

7:30 a.m. - 5:00 p.m.	Registration				
8:00 - 9:00 a.m.	Plenary Session - Tapa Ballroom Salon I Plenary Session - Chair: Albert T. Yeung (ASCE) 2011 Great East Japan Earthquake Tsunami and Future Nankai Trough Earthquake Tsunami - Experience and Preparation - Masahiko Isobe, President, Kochi University of Technology, Kochi, Japan Regionally Based Systematic Approach to Stabilization of Slopes and Current Methods of Evaluation of Slope Stability - John L. Endicott, AECOM Fellow, Hong Kong				
9:00 - 10:30 a.m.	Concurrent Technical Sessions				
Track	TRACK: Environmental & Water Resources	TRACK: Transportation	TRACK: Infrastructure Management	TRACK: Sustainability	TRACK: Natural Disaster
Room	Honolulu Suite 1	Honolulu Suite 2	Honolulu Suite 3	Iolani Suite 3&4	Iolani Suite 6&7
Session 4	4A: Challenges in Water Supply	4B: Transportation Planning	4C: Outstanding Hawaii Civil Engineering Projects	4D: Recycled Materials	4E: Transdisciplinary Approach to Build Resilient Society
Moderator	Claudia Gunsch (ASCE)	Amy Yi-Chin Hu (CICHE)	Gary Y.K. Chock (ASCE)	Sohail Bashir (IEP)	Senro Kuraoka (JSCE)
	<p>Investigation on Seismic Behavior of Irrigation Dams by Dynamic Centrifuge Model Tests - Sokkhaeng Sreng (Nippon Koei Co., Ltd., Tsukuba, Japan), Koji Kobayashi, Seichi Sato (Nippon Koei Co., Ltd., Tokyo, Japan), Hiroyuki Ieda, Yoshiyuki Mohri, Hidekazu Tagashira, Daisuke Watabe and Masahiro Maeda</p>	<p>Improvement of Short Term Prediction of Micro-Simulation Through Parameter Adjustment Using Observation of Traffic State - Kuniaoki Sasaki (University of Yamanashi, Yamanashi, Japan)</p>	<p>Volcanic Ash Riverbank Stabilization Supporting Affordable Housing Complex - Keelohi Sanderfor (Togi Kwong Engineers, Honolulu, Hawaii, U.S.A.), James Kwong and Colton Takaesu</p>	<p>Clay Bricks Prepared with Sugarcane Bagasse and Rice Husk Ash - A Sustainable Solution - Muhammad A. Saleem (University of Engineering and Technology, Lahore, Pakistan), Syed M.S. Kazmi and Safer Abbas</p>	<p>Transdisciplinary Approach to Build Resilient Society - Vision, Strategy and Envisaged Activities of TC21 - Kuniyoshi Takeuchi (Public Works Research Institute, Tsukuba, Japan), Romeo S. Momo, Kenichi Tsukahara and Senro Kuraoka</p>
	<p>The Impact of Saltwater Intrusion on Groundwater Resources of Jeju Island, Korea - Sunwoo Chang (Korea Institute of Civil Engineering and Building Technology, Goyang-Si, Gyeonggi-Do, South Korea), Il-Moon Chung and Nam-Won Kim</p>	<p>A Monte Carlo Simulation-Based Approach for Modeling Stochastic Transportation Demand Forecast - Sungjong Chung and Kihun Song (The Korea Transport Institute, Sejong-si, South Korea)</p>	<p>Honoapi'iani Highway Realignment, Phase 1A - Brian Lock (Wilson Okamoto Corporation, Honolulu, Hawaii, U.S.A.) and Eric Matsumoto (KSF, Inc., Honolulu, Hawaii, U.S.A.)</p>	<p>Low Cost Concrete Bricks Using Marble Slurry as a Raw Material - Manpreet Singh (Birla Institute of Technology and Science, Pilani, India), Anshuman Srivastava (Birla Institute of Technology and Science, Pilani, India) and Pratyaksh Agarwal</p>	<p>Policies and Application of Sciences for Building Resilient Society - Case of Restoration of Tacloban After Devastation Brought by Typhoon Haiyan, 2013 - Romeo S. Momo, Department of Public Works and Highways, Manila, the Philippines</p>
	<p>Evapotranspiration Network Design: Implementation Plan Development - Bijay Panigrahi (AMCON Inc. and KBC Construction, Orlando, Florida, U.S.A.) and Chandra S. Pathak</p>	<p>Bicycle-to-Pedestrian Traffic Accidents in Japan - Hidenobu Matsumoto (Kobe University, Kobe, Japan) and Koji Domea - 289</p>	<p>DOT Hana Highway Route 360 Emergency Repairs - Ryan Okahashi (AECOM, Honolulu, Hawaii, U.S.A.)</p>	<p>Bending Capacity Analysis of High-strength Reinforced Concrete Beams Using Geopolymer Fly Ash and Environmentally Friendly Slag as Fine Aggregate Substitution - Teuku Budi Aulia (University of Syiah Kuala, Banda Aceh, Indonesia), Mochammad Alfuddin and Lissa Opirina</p>	<p>Moving Towards Sustainable and Resilient Smart Water Management - Kyung-Jin Min (K-water Institute, Yuseong-gu, Daejeon, South Korea), Hyosok Chae and Kwangsoo Lim</p>

	How Can Nationwide Master Plans of Integrated Water Resource Management Contribute to Resolve Water Issues in Developing Countries? - Ishiwatari Mikio (Japan International Cooperation Agency, Tokyo, Japan), Okazaki Yuji and Minoru Miyasaka	Analysis of the Future Traffic Demand Forecast and Proposed Development Plan in Dili Metropolitan Area, Timor-Leste - Yoshiyuki Tajima (Nippon Koei Co., Ltd., Tokyo, Japan) and Hisanari Ushirooka	Trenchless Sewer Reconstruction in Developed Urban Areas: Waimalu Sewer Project - Roy Abe (HDR, Inc., Honolulu, Hawaii, U.S.A.) and Tim Taylor	Waste Iron Slag and Alccofine as a Substitute Material for Fine Aggregate and Cement Used in Concrete - Ashish Kapoor, Sanjay Sharma (National Institute of Technical Teachers' Training and Research, Chennai, India) and Devinder Sharma	A Complex Framework for Developing Societal Resilience - Vilas Mujumdar (Vienna, Virginia, U.S.A.)
		Road-Toll Pricing from a Socially Optimal Perspective under the Redemption Principle of Japanese Toll Road Debt Financing - Akio Kishi (University of Shizuoka, Shizuoka, Japan)	Use of Jet Grouting in Challenging Infrastructure Renewal Situations in Hawaii - Reyn Hashiro (Yogi Kwong Engineers, LLC, Honolulu, Hawaii, U.S.A.), Devin Nakayama (Yogi Kwong Engineers, LLC, Honolulu, Hawaii, U.S.A.) and James Kwong (Yogi Kwong Engineers, LLC, Honolulu, Hawaii, U.S.A.)		Report on Kumamoto Earthquake (14-16 April 2016): Whether SDRR - Priority 3 (Investing in DRR Resilience) and Priority 4 (Build Back Better) had worked? - Kenichi Tsukahara (Kyushu University, Fukuoka, Japan)
10:30 - 11:15 a.m.	Poster Session #2 & Networking Break- Tapa Ballroom Foyer				
11:15 a.m. - 12:45 p.m.	Concurrent Technical Sessions				
Track	TRACK: Environmental & Water Resources	TRACK: Transportation	TRACK: Infrastructure Management	TRACK: Sustainability	TRACK: Natural Disaster
Room	Honolulu Suite 1	Honolulu Suite 2	Honolulu Suite 3	Iolani Suite 3&4	Iolani Suite 6&7
Session 5	5A: Waste Management	5B: Rail Design and Operation	5C: Constuction Best Practices	5D: Critical Success Factors in Construction	5E: Structural Dynamics
Moderator	Jae-Woo Park (KSCE)	Potenciano A. Leoncio, Jr (ASCE)	Rajinder Gahi (ICEI)	Jeff Howard (EA)	Muslinang Moestopo (HAKI)
	Technical Options to Improve Municipal Waste Management Mode Based on Formulating Biowaste Recycling Links - Jun Matsushita (Chuo University, Tokyo, Japan), Saburo Matsui, Tomono Miyashiro and Naoko Nakagawa	Stated Preference for a New Mass Transit and Actual Mode Choice Analyzed from the Past Surveys: A Case of BRT in Jakarta - Deo Nobel (University of Delaware, Newark, Delaware, U.S.A.), Sadayuki Yagi and Hirohisa Kawaguchi - 81	Project-Specific Occupational Accident Risk Assessment Model - Sou Sen Leu (National Taiwan University of Science and Technology, Taipei, Taiwan) and Ching-Miao Chang - 137	The Effect of Firm Entry on Public Bidding Price in Japanese Construction Works - Koki Arai (Shumei University, Yachyo-city, Chiba, Japan) and Emi Morimoto (University of Tokushima, Tokushima-City, Tokushima, Japan)	Effect of the Spatial Variability of Soil Surface Seismic Responses on Buildings - Joanna Badr (Lebanese University, Roumieh, Lebanon), Michel Farid Khouri, Elias El Haber and Cecile Cornou
	Mathematical Constructs for Assessing the Effectiveness of Environmental Remediation Actions - Samuel Labi, Saeed Al Qadhi (Purdue University, West Lafayette, Indiana, U.S.A.), Jackeline Murillo Hoyos and Sikai Chen	Development of a Ballast Settlement Model Using Laboratory Ballast Box Tests and Field Measurements - Yeong-Tae Choi (Korea Railroad Research Institute, Uiwangsi, Kyeonggi-do, South Korea), Sung Jin Lee, Sung Ho Hwang and Seong Yup Jang	Next Generation Construction Production System Focusing on Automation Technologies of Construction Machines - Satoru Miura, Izuru Kuronuma and Kenniti Hamamoto (Kajima Corporation, Tokyo, Japan)	A Review of Risk-based Studies on International Construction Projects - Roubbeh Maddah (Indian Institute of Technology-Delhi, Hauz khas, New Delhi, India), Arvind Kumar Jain and Kumar Neeraj Jha	Developing Design Automation for Dolphin Structures with Optimization Techniques - Ying Zhe Jin, Hai Long Shao, Young Jun Nam, Jong Soo Lee and Yun Mook Lim (Yonsei University, Seoul, South Korea)
	Disposal and Recycling of Disaster Wastes by Great East Japan Earthquake - Hiroshi Ogawa (Kajima Corporation, Tokyo, Japan)	Agent-based Model for Assessing Technologies to Reduce Knock-on Urban Train Delay - Seiji Iwakura and Wataru Kobayashi (Shibaura Institute of Technology, Tokyo, Japan)	Asian Economic Reform Using Economic Zone Projects - Rikuo Katsumata (Japan Development Institute, Tokyo, Japan)	A Study on the Major Factors for Decision Making During Tender of Construction Works - Nobuyuki Suzuki (Toyo University, Kawagoe City, Saitama Prefecture, Japan), Junjiro Akiba and James R. Whorlow	Cyclic Performance of Moment Resisting Welded Connections with RBS Built by Iranian Profiles - Parham Memarzadeh (Islamic Azad University, Najafabad, Isfahan, Iran) and Mohammad Davarpanah
	Social Capital Networks and Efficiency of Earthquake Waste Management in Japan - Kiyomi Kawamoto (Hokkaido University of Education, Hakodate city, Hokkaido, Japan) and Karl Kim	Internal Stability of Drainage Layer in Railway Foundations Under Cyclic Loading - Jahanzaib Israr (University of Wollongong, New South Wales, Australia), Buddhima Indraratna and Cholachat Rujkiatkamjorn	Role and Possibilities of PPP for Regional Development in Asian Countries - Satoshi Kato (Toyo University, Tokyo, Japan) and Ryo Matsumaru	Exploring the Critical Incidents in International Construction Projects - Daniel Haussner (Hazama Ando Corporation, Tokyo, Japan), Yu Maemura and Petr Matous	Numerical Analysis on Dynamic Behavior of Slab-Column Connections Subjected to Blast Loads - Kwang Mo Lim, Young Soo Yoon and Joo Ha Lee (University of Suwon, Hwaseong, Gyeonggi, South Korea)
	Hydrogeological Assessment and Remediation Plan at a PCE Contaminated Site - Bijay Panigrahi (AMCON Inc. and KBC Construction, Orlando, Florida, U.S.A.) and Upendra N. Tyagi (Monroe Energy Trainer Refinery, Trainer, Pennsylvania, U.S.A.)		The Importance of Asia and the Activity of ACF - Manyop Han, Sejin Jeon and Seongdong Kim		
12:45 - 1:45 p.m.	Poster Session #2 (Continued) -Tapa Ballroom Foyer & Lunch -Tapa Ballroom Salon 2				
1:45 - 3:15 p.m.	Concurrent Technical Sessions				
Track	TRACK: Environmental & Water Resources	TRACK: Transportation	TRACK: Structural	TRACK: Geotechnical	TRACK: Natural Disaster
Room	Honolulu Suite 1	Honolulu Suite 2	Honolulu Suite 3	Iolani Suite 3&4	Iolani Suite 6&7
Session 6	6A: Stormwater and Wastewater Systems	6B: Traffic Management	6C: Earthquake Engineering I	6D: Geomaterials	6E: Disaster Management
Moderator	Steve Starrett (ASCE)	Pham Hoang Kien (VFCEA)	Vilas Mujumdar (ASCE)	Jae-Yeol Cho (KSCE)	Shang-Hsien Hsieh (CICHE)

	<p>Renovation Design of Aging RC Sewer Pipes as Semi-Composite Structures Based on Nonlinear FEM Analysis - Masaaki Nakano (Nippon Koei Co., Ltd., Tsukuba-shi, Ibaraki, Japan), Zhai Shi, Yukari Nakamura, Kenichi Ogawa and Kenichi Tanaka</p>	<p>Interagency Communication and Information Exchange System for Highway Incident Management: Framework and Prototype Development - Chuanxin Fang (Transtech LLC, Bellevue, Washington, U.S.A.), Shouhua Liang, Lihong Huang, Guohua Sun and Shouniu Wang</p>	<p>Study on Earthquake Time Histories and Response Spectrums for Analysis of High Rise Building Structures in Mongolia - Erdene Ganzorig (Mongolian University of Science and Technology, Ulaanbaatar, Mongolia)</p>	<p>Estimate of the Initial Rock Stress by Performing a Comprehensive Evaluation Using the Results of Several Techniques - Kozo Onishi (SEPCO, Kagawa, Japan), Naoki Nishizaka, Yoshihiko Ishikawa, Toshinori Naryuki, Tatsuya Tanaka, Kenichi Ando, Taishi Oouchi and Takatoshi Ito</p>	<p>Improved Analysis Method for the Calculation of Building Damage Cost due to Flood Disaster - Kyonghoon Kim (Korea Institute of Civil Engineering and Building Technology, Iksan, South Korea), Gilho Kim, Seok Kim, Jae-Woo Park and Jinman Kim</p>
	<p>Evaluation of the Factors Contributing to the Occurrence of Ground Cave-ins and Subsidence Induced by a Damaged Sewer Pipeline - Tae-Young Kwak (Seoul National University, Seoul, South Korea), Joonyoung Kim, Min-ho Lee and Choong-Ki Chung (Seoul National University, Seoul, South Korea)</p>	<p>Factors Affecting Driving Avoidance Behavior and Effects of a Smart Phone Based Driving Safety Diagnosis Tool - Ying Jiang (Hiroshima University, Higashi-Hiroshima, Japan) and Junyi Zhang (Hiroshima University, Higashi-Hiroshima, Japan) - 246</p>	<p>Seismic Fragility Analysis of a Typical Two-Pylon Cable-Stayed Bridge in China: Comparison of Fragility Models - Yutao Pang (Polytechnique Montréal, Montréal, Quebec, Canada), Xiaowei Wang (Tongji University, Shanghai, China), Yu Shang (Tongji University, Shanghai, China) and Li Wu</p>	<p>Destabilizing Effects of Chemical Weathering and Root Jacking on Sub-Tropical Volcanic Rock Slopes - James Kwong (Yogi Kwong Engineers, Honolulu, Hawaii, U.S.A.), Kealohi Sandefur (Yogi Kwong Engineers, Honolulu, Hawaii, U.S.A.) and Shentang Wang</p>	<p>An Evaluation of Infection Risk Caused by the Compound Disaster of a Large Earthquake with Flooding in an Urban River Catchment - Naoko Nakagawa (Rikkyo University, Tokyo, Japan), Akira Kawamura and Hideo Amaguchi</p>
	<p>Introduction of Sewage Pipeline Renewal Method and Design Approaches - Katsumori Yoshino (Seitetsu Chemical Co., Ltd., Rittou-city, Shiga, Japan), Yoshihiko Idekawa and Hitomichi Shibata</p>	<p>The Correlation of Safety Indicators of Toll Road in Indonesia - Amelia Makmur (Krida Wazana Christian University, Jakarta Barat, Indonesia), Wimpy Santosa and Ranto Rajagukguk</p>	<p>Seismic Retrofit for an Existing Apartment by Core Wall - Tsung-Chih Chiou (National Center for Research on Earthquake Engineering, Taipei, Taiwan), Yaw-Shen Tu, Wen-Cheng Shen, Yi-An Li, Pu-Wen Weng, Yao-Sheng Yang, Lap-Loi Chung and Shyh-Jiann Hwang</p>	<p>Effects of Vesicular Parameter on the Failure Criterion of Basalts - Soonbo Yang (Port and Airport Research Institute, Yokosuka, Kanagawa, Japan) and Shinji Sassa (Port and Airport Research Institute, Yokosuka, Kanagawa, Japan)</p>	<p>Updated Risk Indices in the Asia-Pacific Region for Earthquakes and Floods - James E. Daniell and Trevor M. Daniell (University of Adelaide, Adelaide, South Australia, Australia)</p>
	<p>Development of Steady and Unsteady Pipe Flows Numerical Simulations Using CIP-SMAC Method - Issaku Azechi (National Agriculture and Food Research Organization, Tsukuba, Ibaraki, Japan), Masaomi Kimura, Hirohide Kiri and Tetsuo Nakaya</p>	<p>Expansion of ITS in Southeast Asia - Masayuki Yamamoto (Mitsubishi Heavy Industries, Kobe, Hyogo, Japan), Takakazu Tsuji and Hideyuki Ito (Mitsubishi Heavy Industries, Kobe, Hyogo, Japan)</p>	<p>Relationship between the Mid-column Loss and Seismic Story-shear Resistances - Meng-Hao Tsai (National Pingtung University of Science & Technology, Pingtung, Taiwan) and Wen-Bing Zhuang</p>	<p>Example of Using Unsuitable Fine-grained Volcanic Soil as Embankment for a Reinforced Earth Wall After Such Soil Was Crushed and Re-solidified - Atsuko Sato (Civil Engineering Research Institute for Cold Region, Sapporo, Hokkaido, Japan), Toshihiro Hayashi (Civil Engineering Research Institute for Cold Region, Sapporo, Hokkaido, Japan), Satoshi Nishimoto (Civil Engineering Research Institute for Cold Region, Sapporo, Hokkaido, Japan) and Teruyuki Suzuki (Kitami Institute of Technology, Sapporo, Hokkaido)</p>	<p>Effect of Breakwater in the Superposition of Earthquake and Tsunami - Katsushiro Okada (Port and Airport Research Institute, Yokosuka, Kanagawa, Japan), Kojiro Suzuki and Taro Arikawa (Chuo University, Tokyo, Japan)</p>
		<p>Policy Level Example Case Study: Urban Heat Island - Hui Li (Tongji University, Shanghai, China)</p>			<p>The Transformed Behavior of Restored Constructure by Large Sandbags in a Large-scale Sediment Disaster - Yoshinori Mori, Tetsuya Kubo, Hiroaki Miyatake and Genki Inoue (Public Works Research Institute, Tsukuba-shi, Ibaraki-ken, Japan)</p>
3:15 - 4:00 p.m.	Poster Session #2 (Continued) & Networking Break-Tapa Ballroom Foyer				
4:00 - 5:30 p.m.	Concurrent Technical Sessions				
Track	TRACK: Environmental & Water Resources	TRACK: Transportation	TRACK: Infrastructure Management	TRACK: Sustainability	TRACK: Geotechnical
Room	Honolulu Suite 1	Honolulu Suite 2	Honolulu Suite 3	Iolani Suite 3&4	Iolani Suite 6&7
Session 7	7A: Watershed, River and Flood Management	7B: Pavement Preservation	7C: Special Topics in Civil Engineering	7D: Education	7E: Geotechnical Earthquake Engineering
Moderator	Udai P. Singh (ASCE)	Jon Young (ASCE)	Ignacio B. Zaragoza, Jr. (PICE)	Ed Wang (ASCE)	Osamu Kusakabe (JSCE)
	<p>Transformation of Land Use Pattern in Phnom Penh City at a Watershed Scale - Luong Lim (Waseda University, Tokyo, Japan) and Yoh Sasaki (Waseda University, Tokyo, Japan)</p>	<p>Performance of Preventive Maintenance Treatment in Texas - Jorge Prozzi and Pedro Serigos</p>	<p>Maritime Network Efficiency Comparison in Indonesia - Halida Fahmiasari (Delft University of Technology, the Netherlands) and Danang Parkesit - 2</p>	<p>Scenario Method for Understanding Public Opinions in Planning Process - Kiko Yamada-Kawai (Tokyo Institute of Technology, Tokyo, Japan)</p>	<p>Design and Construction of New Seismic Retrofit Method for Pile Foundation Using Steel Shell Reinforced Concrete and Ground Improvement: Application for the Pile Foundation of Tokyo Monorail - Satoshi Matsuki (Kajima Corporation, Tokyo, Japan), Masanori Shibata, Katsutoshi Fujisaki, Takahiro Arai, Takashi Obara and Masayuki Ishido</p>
	<p>Groundwater Nutrient Loads from a Watershed to a Coastal Estuary - Ashok Pandit (Florida Institute of Technology, Melbourne, Florida), Jacob Jansen, Nawazish Ali, Howell H. Heck, Kamal Mamoua and Wissam Al-Talib</p>	<p>Assessing the Stabilizing Mechanisms of Unbound Road Pavements - Dylan Robert (RMIT University, Melbourne, Australia), Rintu Renjith, Sujeewa Setunge, Brian O'Donnell, Dilshan Hewawasamge and Ernst Tan - 58</p>	<p>Study on Sustainable City Management After 2020 Tokyo Olympic Games - Nobuyuki Suzuki (Toyo University, Kawagoe City, Saitama Prefecture, Japan) and James R. Whorlow - 27</p>	<p>Landscape of Capstone Course in Civil Engineering Departments in Taiwan - Mandy Liu (Institute of Engineering Education Taiwan, Taipei, Taiwan) and Liang-Jeng Leu (National Taiwan University, Taipei, Taiwan)</p>	<p>Design Method for Pile Foundation in Composite Ground and Evaluation of its Seismic Performance - Koichi Tomisawa (Civil Engineering Research Institute for Cold Region, Sapporo, Hokkaido, Japan) and Koichi Isobe</p>
	<p>Reevaluation of the C-51 Basin Rule - Bijay Panigrahi (AMCON Inc. and KBC Construction, Ovando, Florida, U.S.A.), C. Alan Hall and Pradeep Behara (University of the District of Columbia, Washington DC, U.S.A.)</p>	<p>Overlay Performance Under High Temperature Conditions - Adrian Archilla</p>	<p>Feng Shui Site Planning and Design Using Google Earth - Chao-Tai Hu and Chiwan Hsieh (National Pingtung University of Science & Technology, Pingtung, Taiwan) - 248</p>	<p>Ethics in Civil Engineering Projects - Sohan Swamy (Institution of Civil Engineers, India, New Delhi, India)</p>	<p>Earthquake-Induced Volume Contraction Characteristics of Rock Debris and its Assessment Chart for Prediction - Shinji Sassa (Port and Airport Research Institute, Yokosuka, Kanagawa, Japan), Yusuke Gotoh, Hiroyuki Yamazaki, Hidenori Takahashi and Eiji Kohama</p>
	<p>Study on 4 Major Rivers Restoration Project for Enhancement of Waterfront and River Environmental Values in Korea - Sung Phil Jang (Korea Water Resources Corporation (K-water), Daedeok-Gu, Daejeon, South Korea)</p>	<p>Performance-based Hot Mix Asphalt and Flexible Pavement Design - The European Perspective - Bernhard Hofko (Research Center of Road Engineering, Wien, Austria) and Ronald Blab</p>	<p>Empirical Development of 3D Terrain Processing Platform for Autonomous Excavation System - Seok Kim (Korean Civil Engineering and Building Technology, Goyang-Si, Gyeonggi-Do, South Korea), Tae-yeong Kim, Soonwook Kwon and Jongwon Seo</p>	<p>The Conceptual Model of Information Management in Civil Infrastructure Lifecycles - Koji Makanae (Miyagi University, Miyagi, Japan) - 177</p>	<p>The Rule of Potential Factors in Triggering Landslides by Earthquake - Yanrong Li (Taiyuan University of Technology, Taiyuan, Shanxi, China), Runqiu Huang and Yonghong Luo</p>

		An Urban Flooding Simulation Technique by Using 3D City Information Model - Sang-Ho Lee (Yonsei University, Seoul, South Korea), Junwon Park, Sang I. Park and Young-Hoon Jang	Impact of Pre-existing Conditions on the Effectiveness of Preservation Treatments and Determination of Optimum Treatment Timing - Syed Haider	Developing of Emergency Action Plan Manual for Facility - Su-yeul Park (Uno Solution Co., Paju, Gyeonggi, South Korea), Eun-Ho Oh, Jin Man Kim and Hyeon-Cheol Park	Establishment of the Centre for Pavement Excellence Asia Pacific - Brian O'Donnell (CPEAP Limited, Langwarrin, Victoria, Australia)	
	6:00 - 9:00 p.m.	Awards Dinner - Hilton Hawaii Villages Great Lawn				
FRIDAY, SEPTEMBER 2	7:30 a.m. - 12:00 p.m.	Registration - Tapa Ballroom Foyer				
	8:00 - 9:00 a.m.	Plenary Session - Tapa Ballroom Salon 1 Plenary Session - Chair: David G. Leverenz (ASCE) Educating the Future Civil Engineers for a Sustainable World: An Integration of Cornerstone, Keystone, and Capstone Courses on Engineering Design at the National Taiwan University - Liang-Jeng Leu, National Taiwan University, Taipei, Republic of China Transportation Engineering Challenges and Solutions, With a Focus on Highways in Hawaii - Edwin H. Sniffen, Hawaii Department of Transportation, Honolulu, Hawaii, U.S.A.				
	9:00 - 9:30 a.m.	Networking Break -Tapa Ballroom Foyer				
	9:30 - 11:00 a.m.	Concurrent Technical Sessions				
	Track	TRACK: Environmental & Water Resources	TRACK: Structural	TRACK: Infrastructure Management	TRACK: Sustainability	TRACK: Geotechnical
	Room	Honolulu Suite 1	Honolulu Suite 2	Honolulu Suite 3	Iolani Suite 3&4	Iolani Suite 6&7
	Session 8	8A: Hydraulics	8B: Earthquake Engineering II	8C: Infrastructure Asset Management	8D: Engineered Materials	8E: Tunneling
	Moderator	Roger W. Babcock, Jr. (ASCE)	Erdene Ganzorig (MACE)	Md. Abdus Sabur (IEB)	Dhruba Thapa (NEA)	Kenichi Horikoshi (JSCE)
		Substantiative Experimental Study of Discharging Sediments by the Mobile Suction Method at the Yahagi Dam - Tatsuya Sugita, Masakuni Saiki, Wataru Nakane, Atsushi Tokunaga and Itsuki Miyairi (Obayashi Corporation, Tokyo, Japan)	Seismic Risk Analysis of Cable-stayed Bridges in China Using Fragility Method - Wancheng Yuan (Tongji University, Shanghai, China) and Jian Zhong	Environmental-Harmony Coastal Structure Functional Assessment - Rumiko Kajihara (Civil Engineering Research Institute for Cold Region, Sapporo, Hokkaido, Japan), Jin Sato, Kenji Sugawara, Masami Ohashi and Nobuo Mikami	Mechanical Behavior of Adaptive Rubber Bearings - Chong-Shien Tsai (Feng Chia University, Taichung, Taiwan), Hui-Chen Su, Wen-Chun Huang and T.C. Chiang	Improvement of Shimbashi Station on the Ginza Subway Line (the First Subway in the East) - Atsushi Numata and Yasushi Arai (Tokyo Metro Co., Ltd., Tokyo, Japan)
		Modeling Hydraulic Jump on Corrugated Bed Using Particle Method - Md. Toufiq Anam, Yee-Chung Jin (University of Regina, Regina, Saskatchewan, Canada) and Lei Fu	Fundamental Period Prediction of Steel Plate Shear Wall Structure - Benjamin Keam (San Francisco State University, San Francisco, California, U.S.A.) and Cheng Chen	Bridge Component Deterioration: An Ordinal Logistic Regression - Pan Lu (North Dakota State University, Fargo, North Dakota, U.S.A.) and Denver Tolliver	Effect of Accelerated Carbonation on Concrete Made with Fly Ash and Blast Furnace Slag - Shaikh Hussain (Birla Institute of Technology and Science, Pilani, India), Dipendu Bhunia (Birla Institute of Technology and Science, Pilani, India) and S.B. Singh	Construction of Long-Distance Water Transfer Tunnel, Pahang-Selangor Raw Water Transfer Tunnel, Malaysia - Takashi Kawata, Takayuki Matsumoto (Malaysia Office, Shimizu Corporation, Kuala Lumpur, Malaysia) and Akio Mito
		Visualization of Flow Regime Around Water Leak in Pipeline by Using PIV - Masami Kimura (University of Tokyo, Tokyo, Japan), Issaku Azechi (National Agriculture and Food Research Organization, Tsukuba, Ibaraki, Japan), Yohei Asada, Toshiaki Iida and Naritaka Kubo	Seismic Analysis and Evaluation of Moment Frame Systems Renovated with Supplemental Damping - Lisa Wang (California State Polytechnic University, Pomona, California, U.S.A.) and Kenjiro Iwamoto	Study on a Methodology to Find an Efficient Road Maintenance Budget Execution Plan Using AHP and GIS - Sungpil Shin (Korea Institute of Civil Engineering and Building Technology, Gyeonggi-Si, Gyeonggi-Do, South Korea) and Inchlul Yang - 262	Reliability Based Design of Concrete Mixes with Partial Replacement of Cement by Silica Fume - Rajinder Ghai (Irrigation Department, Punjab Government, Chandigarh, India)	Mitigation of Tunnel Blasting Impact in Urban Residential Area - Keita Iwano (Kajima Corporation, Tokyo, Japan), Yasunari Tezuka, Takayuki Ochikawa, Norie Hanaoka and Katsunori Fukui
		Effect of Evacuation Buildings and Seawalls Using the Evacuation Simulator Coupling with Numerical Wave Simulator - Taro Arikawa (Chuo University, Tokyo, Japan), Yuuki Koyanagi and Hiroaki Hirano	Mechanical Behavior of Pile Head Joint Disconnected Pile Head Rebars from Foundation for Earthquake Resistance - Tomohiro Tanikawa (Takemaka Corporation, Otsuka Inzai, Chiba, Japan), Junji Hamada, Tomio Tsuchiya and Tetsu Usami	Method for Analyzing Influence of Land Cutting on the Surrounding Trees - Yoshiki Yamamoto (Nippon Koei Co., Ltd., Tsukuba-shi, Ibaraki, Japan)	Simple Frost Damage Evaluation of Concrete Surface by Infrared Thermography - Yutaka Takashina (Kobe City College of Technology, Kobe, Japan)	Seismic Design of Damping Ring Tunnel - Masatoshi Fukuma (Oriental Consultants Co., Ltd., Tokyo, Japan), Takahiro Kukidome, Masato Kurata, Shogo Otake and Kaoru Fukawa
		Towards a Comprehensive Design of Nature-oriented River Structures - Kehji Michioku (Hosei University, Tokyo, Japan)			Effect of Air Void Content and Repeated Testing on Stiffness of Cylindrical Asphalt Mix Specimen - Daniel Steiner (Research Center of Road Engineering, Wien, Austria), Bernhard Hofko (Research Center of Road Engineering, Wien, Austria) and Ronald Blab	The URUP Method - Tunnel Excavation with Extremely Thin Soil Overburden - Shusaku Mino (Obayashi Corporation, Tokyo, Japan), Atsushi Kagawa and Akhiro Nishimori
		11:15 - 12:00 noon	Closing Plenary Session - Chair: Albert T. Yeung (ASCE) Put Your Dreams to Work - Annabel Chotzen, Hawaii, U.S.A.			
	12:00 - 12:30 p.m.	Closing Ceremony - Chair: Albert T. Yeung (ASCE)				
	1:30 - 5:00 p.m.	Technical Tour 4-Honolulu Railway Tour			Technical Tour 6-Nuuanu Watershed Tour	