

USMCA2013 PROGRAM

8 - 11 October, 2013

Hilton Hanoi Hotel & NUCE Campus, HANOI, VIETNAM

Pre conference day: October 8, 2013:

Technical visits & sight seeing - pre conference day

9:00	Visit THANG LONG ROYAL CITADEL
10:30	Visit Van Mieu - Imperial Academy - Vietnam's first university
12:00	Lunch
13:00	Technical Visit: Nhat Tan Bridge
18:00	Registration at Hilton Hanoi Hotel
19:30	Welcome dinner

DAY 1: October 9, 2013

08:00 - 12:00

LOCATION:	Hilton Hanoi Hotel, Ballroom	MC: Dr. Nguyen Hoang Giang
8:00	REGISTRATION	
8:30	WELCOME Speech (Dr. Le Van Thanh - President of National University of Civil Engineering)	
8:35	WELCOME Speech (Prof. Meguro - Director of ICUS, The University of Tokyo)	
8:40	Opening Remark (Mr. Hideo Suzuki, Deputy Chief of Mission of Japan Embassy in Vietnam)	
8:45	Opening Remark (Dr. Nguyen Thanh Nghi - Deputy Minister of Construction)	
8:50	Opening Remark (Mr OKIURA Fumihiko - Senior Representative of JICA Vietnam)	
8:55-9:25	Keynote speaker 1: Dr. Hiroshi DOBASHI - President, Shutoko Engineering Co., Ltd, Japan <i>Advanced technologies for safety of underground expressway network in Tokyo metropolitan area</i>	
9:25 -10:15	Group photo-COFFEE BREAK & EXHIBITIONS	
10:15 - 10:45	Keynote speaker 2: Prof. Phan Quang Minh - Dean of Building & Industrial Engineering Department - NUCE <i>The structural design trend of supertall buildings in Vietnam</i>	
10:45 - 11:15	Keynote speaker: Delta Corporation: <i>Construction technologies for royal city complex</i>	
11:15-11:30	Keynote speaker: JFE Steel Corporation <i>Advanced steel technologies for infrastructure</i>	
11:30-11:40	Sponsor awards	
11:40-13:00	LUNCH	

13:00 - 17:30

LECTURE HALL 1

13:00 - 17:30

LECTURE HALL 2

Session 1 - A (Chairmen: Dr. Takaaki Kato / Dr. Dinh Van Thuat)

Session 2 - B (Chairmen: Prof. Reiko Kuwano / Dr. Nguyen Hoang Giang)

No	TITLE	Authors	No	TITLE	Authors
79	A study on the development of risk assessment method for urban fire according to fire spread phenomena of exterior and wood materials	YoungJin KWON BongChan KIM InHyuk Goo	154	Planning for development of metro system in Hanoi until 2030 and vision to 2050	Hoang Ngoc Minh Hanoi Metropolitan Railway management board
4	Self help approach in housing reconstruction and beneficiaries satisfaction in Palestine	Adnan ENSHASSI Mohammed ABU ZAITER	155	Concrete pouring of pile caps for 52 hours in a row - Lotte bulding Hanoi	Cha Han Il - Lotte E&C
19	Roles of self-help and mutual and local government aid in community-based disaster mitigation	Midori YAMAGUCHI, Chiaki TAKEKUMA Yoko TOWATARI	6	Structure maintenance methods and disaster measures of Tokyo Metro	Hiroyuki SHINSAI, Shinji KONISHI, Kouichi KAWAKAMI, Yoshihiko MUTOU
68	Sustainable safety and security in private rental properties for students in Hanoi: the tenants' perspective	NGUYEN Thi Mai PHUNG Anh Quan NGUYEN The Quan	137	For the safety and the sustainable development of Ho Chi Minh City	Ngoc Tran NGUYEN
25	Tsunami evacuation facilities in the damaged areas due to the Great East Japan Earthquake: before and after	Osamu MURAO	7	History and recent trend of Tokyo Metro's tunnel construction technology	Shinji KONISHI Satoshi ITO Takashi HIRANO Kazufumi NOYAKI
105	A new parking concept for a living quarter in Hanoi	Quang Minh NGUYEN	17	High-raised urban expressway to mitigate congested heavy traffic	Yukitake SHIOI Hiroshi KUDOH

13:00-15:00

43	Land use of super levees along the Arakawa River in the low-lying areas of Tokyo	Hitoshi NAKAMURAI Takaaki KATO	78	Application of water screen fire prevention systems	Hideaki KUWANA Reiko AMANO Takuzo IDA Osamu IMAZEKI Toshihide TSUJI
89	Anomaly detection of seasonal and annual environment changes of the world	Haruo SAWADA	107	Evaluation of applicability of steel pipe piles in Vietnam	Shunsuke USAMI Dinh Van THUAT Yasushi WAKIYA Eiji KATAYAMA Dinh Van HIEP
126	Analysis on urban fire hazard and risk zones, assessment mapping in Bangkok, Thailand	Praopanitnan CHAIYASANG Nitin Kumar TRIPATHI	147	Contemporary timber building in Japan, 2013	Mikio KOSHIHARA
135	Ground anchors for revetment	Haruka SAITO	8	A useful approach to identify and analyze factors affecting safety on construction site with lifting equipment in Vietnamese environment	Thanh Long NGO, Van Gon BUI, Dinh Sung PHAM, Quoc Dung NGUYEN, Chi-Chen TSAI

15:00-15:30

COFFEE BREAK & EXHIBITIONS

Session 3-C (Chairmen: Dr. Taketo Uomoto / Dr. Nguyen Hung Phong)			Session 4-D (Chairmen: Prof. Haruo Sawada / Prof. Pham Quang Hung)		
139	Recycled glass concrete beams under bending and shear	Kiang Hwee TAN	56	Savar building tragedy in Bangladesh: Way forward	Mehedi Ahmed ANSARY Naima RAHMAN
44	Strength of beam-column joint in soft-first story RC buildings	Toshikatsu ICHINOSE Sefatullah HALIM Susumu TAKAHASHI Masaomi TESHIGAWARA Takashi KAMIYA Hiroshi FUKUYAMA	81	Secular changes in people's consciousness regarding earthquake early warning -Based on national survey(2009-2012) in Japan	Miho OHARA Atsushi TANAKA
112	Parametric study for displacement based analysis of unreinforced brick masonry walls subjected to lateral loads	Archanaa DONGRE Pradeep K RAMANCHARLA	124	Prediction on sediment related disaster through the satellite rainfall data	Yoshikazu SHIMIZU Toshio OKAZUMI2 Tadanori ISHIZUKA
143	A study of the influence of the bending radius of reinforcement bar on the failure mechanism of L-shaped beam column joint by 3D discrete model	Kohei NAGAI Liyanto EDDY Koichira IKUTA	131	Effect of foreign government advisories on foreigners' post-disaster action after the 2011 Great East Japan Earthquake	Akiyuki KAWASAKI Michael HENRY Ichigaki TAKIGAWA Kimihiro MEGURO
84	An experimental investigation of a self-oscillating multi-heat pipe using pure water and alumina nanofluid, respectively	Dao Danh Tung Shuichi Torii	5	Further modification and working stress design using K-stiffness method on soft and hard foundations	Sowarapan DUANGKHAE Dennes T. BERGADO Pankaj BARAL Barry T. OCAY
129	Earthquake behavior of reinforced concrete framed buildings on hill slopes	Ajay K SREERAMA Pradeep K RAMANCHARLA	42	Survey of sub-surface cavities in the liquefied ground caused by the Great East Japan Earthquake	Ryoko SERA Yutaka KOIKE Haruto NAKAMURA Reiko KUWANO Jiro KUWANO
102	Using surface roughness as a performance parameter for RC wastewater pipes	Rahul YADAV Himanshu SINGH Sunil SINHA Sudhir MISRA	41	Model tests simulating sub-surface cavities formed in the liquefied ground	Reiko KUWANO Jiro KUWANO Shinpei TAIRA Mari SATO Ryoko SERA Yutaka KOIKE
109	Capacity factors for implementing urban infrastructure projects in India	Yehyun AN Ralph HALL	132	Climate change effects in Chindwin River basin, Myanmar	Win Win ZIN Khin Than YU
120	Using GFRP for repair and rehabilitation of RC frames	AMARENDRA Kunwar K BAJPAI Sudhir MISRA Durgesh C RAI	46	Seismic stability of reinforced soil walls in the 2011 Tohoku Earthquake	Jiro KUWANO Yoshihisa MIYATA Junichi KOSEKI
			152	Ideal regional disaster management plan based on the experience from the 2011 Great East Japan Earthquake	Kimihiro MEGURO

18:30-22:00

BANQUET & Traditional Music Performance- 18:00 - 22:00

DAY 2: October 10, 2013 at Campus of National University of Civil Engineering

LOCATION:		Lecture Hall, National University of Civil Engineering								
		Library building: 2nd floor	Environmental Inst: 2nd floor	G3 building 1st floor						
		Session 5-E1 (Prof. Nguyen Viet Anh / Prof. Sudhir Misra)	Session 6-F1 (Prof. Jiro Kuwano / Dr. Le Quang Hanh)	Session 7-G1 (Prof. Mehedi Ahmed Ansary / Prof. Do Huu Thanh)						
9:00-10:30	12	Information collection and vulnerability of foreign students during the 2011 Tohoku Earthquake and 2011 Thai Flood	Michael HENRY, Akiyuki KAWASAKI, Kimiro MEGURO	2	Scale effects on the shear strength of waste in coastal landfill sites	Nguyen Chau LAN Toru INUI Kazuki IKEDA TakeshiKATSUMI	74	Response characteristics of R/C buildings considering impulsive force of tsunami drifting objects	Ho CHOI Kazuto MATSUKAWA Yoshiaki NAKANO	
	69	Risks from in-city construction works to urban inhabitants' safety in Hanoi: the city residents' perspective	NGUYEN Duy Cuong MA Xuan Minh NGUYEN The Quan	16	Triaxial tests for elastic wave measurement with associated matric suction on the unsaturated fine content sandy soil	Laxmi Prasad SUWAL Reiko KUWANO Takeshi SATO	64	NIOM analysis of vertical array records observed in RC structure buildings	Yusuke ODA Hidenori MOGI Hideji KAWAKAMI	
	14	Increasing community awareness of earthquake risk through children education: A case study of Dien Bien City in Vietnam	Pham Thi Hong Pennung Warnitchai Akiyuki Kawasaki	31	Effect of permeability of dam body and foundation on free surface	Thi Dieu Chinh LUU	39	Residual seismic capacity evaluation of RC frame with weak-beams based on energy absorption capacity	Chunri QUAN Ho CHOI Noriyuki TAKAHASHI Yoshiaki NAKANO Kazuto MATSUKAWA	
	28	Public housing after hurricane: Urban renewal or removal? The case study of Beaumont and Galveston, Texas, U.S.A.	Tho TRAN Shannon VAN ZANDT Walter G. PEACOCK	48	Experimental application of biogROUT to sand with fines	Tsubasa Sasaki Reiko Kuwano	67	Low temperature behavior and modeling of High damping rubber bearings	Tomoya MATSUMOTO Yoshiaki OKUI Dung Anh NGUYEN Md. Shafquat HASAN Kaho TAKAHASHI Hiroshi MITAMURA Takashi IMAI	
	47	Flood adaptive cities towards climate change adaption and urban development in Mekong Delta	Thu Trang LE	60	The deformation of flexible pipe buried in soil with different degree of compaction	Ngoc Duyen NGUYEN Reiko KUWANO	76	The structural performance of traditional frames with through columns about townhouses in Japan	Hiromi SATO Mikio KOSHIHARA Tatsuya MIYAKE	
	75	Analysis on influencing factors of community participation in disaster countermeasures regarding land subsidence and climate change case study: North Jakarta (Indonesia) and Shinkoiwa Community, Katsushika City, Tokyo (Japan)	Maria Bernadet Karina Dewi Takaaki KATO	61	Triaxial test for the evaluation of internal erosion	Mari SATO Reiko KUWANO	77	Modeling and earthquake response analysis of traditional timber frames including Kumimono	Iuko TSUWA Mikio KOSHIHARA	
	91	Assessment of multi-hazard risk in mega cities in Japan	Tomofumi IKENAGA Miho OHARA	62	A study of bored pile bearing capacities at some locations in Hanoi, Vietnam	Thuy Diep DUONG Hung Quang PHAM Hieu Duc KIM Lam Thai GIANG	93	Optimization of PP-band mesh connectivity for cost and time effectiveness in seismic retrofitting of masonry structures	Adnan Mahmood DAR Saleem M. UMAIR Muneyoshi NUMADA Kimiro MEGURO	
	94	Development of an innovative stormwater management framework toward building cities resilient to climate change in Vietnam	Duong Du Bui Kieu Duy Tran Thanh Ngoc Tong Tung Son NGUYEN	96	A technique of image processing analysis recommended for research of laterally loaded pile using a system of X-ray CT scanner	Khoa Dang Pham Jun Otani	83	Monitoring system for Nguyen Van Troi -Tran Thi Ly stay cable bridge during construction and for service stage	NGUYEN Phuong Duy TRAN Minh Phuong	
10:30-10:45	100	Assessment of potential greenhouse gas emission of domestic solid waste treatment in Hanoi, Vietnam	Minh Giang HOANG	121	Assessment of urbanization impact to temperature, rainfall and flooding situation of Hanoi city taken into account climate change	Vu Minh Cat	80	Practical evaluation method of collapse limit displacement based on seismic damage of structural members	Kazuto MATSUKAWA Masaki MAEDA	
	COFFEE BREAK									
			Session 5-E2 (Dr. Miho Ohara / Dr. Dinh Van Hiep)	Session 6-F2 (Prof. Tan Kiang Hwee / Dr. Tran. T. Viet Nga)	Session 7- G2 (Prof. Mikio Koshihara / Dr. Dao Danh Tung)					
	115	Optimisation of indoor environmental quality and energy consumption within urban office buildings	Tran Ngoc Quang	32	Study on carbonation and pore structure of cementitious materials exposed to supercritical CO2	Ryosuke HIRAI Hikaru ISOZAKI Shingo ASAMOTO	104	Ultra high performance concrete using a combination of silicafume and limestone in Vietnam	Nguyen Cong Thang Nguyen Van Tuan Pham Huu Hanh	
	130	A basic study on future strategy for effective disaster information dissemination: Case study in Thailand	Niwat APICHARTBUTRA Miho OHARA	33	Effect of the application of surface penetrations on the mass transport properties of concrete	Nozomu SOMEYA Yoshitaka KATO	113	Analytical and experimental study for seismic design of a typical bridge pier according to Vietnamese earthquake design code	Pham Hoang KIEN	

10:45-11:25	114	Analysis of initial disaster responses for disaster management stakeholders in emergency and recovery phase for sustainable disaster management system	Muneyoshi NUMADA Kimiro MEGURO	34	Influence of coexistent ions in seawater on the chloride permeability of concrete	Toshiya CHIBA Katsuya MITA Yoshitaka KATO	122	Influence of climate change to loads and actions to buildings	NGUYEN Vo Thong
	151	Planning tool for urban sustainable development management in Vietnam cities	Nguyen Thi Thanh MAI	35	Performance of crack self-healing concrete by development of semi-capsulation technique for functional effective ingredients	Vu Viet Hung Toshiharu Kishi Tae-Ho Ahn	141	Test methods for evaluation of sulfate resistance of limestone powder replacing cement mortars	Ittiporn SIRISAWAT Warangkana SAENGSOY Lalita BAINGAM Pitisan KRAMMART Somnuk TANGTERMSIRIKUL

11:30 - 12: 00 Campus tour

12:00 - 13:30

LUNCH

Library building: 2nd floor

Environmental Inst: 2nd floor

G3 building 1st floor

Session 5-E3 (Dr. Kohei Nagai / Prof. Pham Thuy Loan)

Session 8 (Dr. Akiyuki Kawasaki / Dr. Win Win Zin)

Session 9 (Dr. Takaaki Kato / Dr. Pham Hoang KIEN)

	26	The integration approach for broad-scale land-use change prediction modelling	Anh Nguyet DANG Akiyuki KAWASAKI	65	Hanoi towards 2030 - Substance flow analysis supporting the planning process	Viet Anh NGUYEN Jan-Olof DRANGERT Manh Khai NGUYEN Thi Ha NGUYEN Hans Bertil WITTGREN Celeste ZIMMERMANN	142	Crack identification in frame structures by using the wavelet analysis of mode shapes	TranVan Lien Trinh Anh Hao
	30	China's growing civil society for disaster response	Xiaoge XU Koide OSAMU Takaaki KATO	11	Comparisons nitrogen removal capacities by anammox process using different biomass carriers	TRAN Thi Hien Hoa, LUONG Ngoc Khanh Kenji FURUKAWA	150	Mechanical behavior of high damping rubber bearings at low temperatures	Dung Anh NGUYEN Yoshiaki OKUI Md. Shafquat HASAN Hiroshi MITAMURA Takashi IMAI
	45	Survey on current system for disseminating disaster early warning by cellphones in Japan	Takanori SAWARA Miho OHARA	21	Investigation of residential water end-use in urban areas of Hanoi	Huyen T.T. DANG Nga T.V. TRAN	140	Examples of proposals for emergency countermeasure and research methods of landslide in Vietnam	Do Ngoc Trung Nobolu Fujii Seiichi Hujiwara Shinro Abe
	49	Assessing recovery: existing practices and evaluation measures	Yasmin BHATTACHARYA Takaaki KATO	22	Pollution and eutrophication control in urban lakes	Ha D. TRAN Huyen T.T. DANG	53	Ultra rapid strength development in dry-mix shotcrete for emergency support and harsh mining conditions	Jean-Daniel LEMAY Marc JOLIN Richard GAGNÉ Benoît BISSONNETTE
	54	Study on earthquake early warnings provided to public/Advanced users at the 2011 off the Pacific coast of Tohoku Earthquake	Ayaka NISHIGUCHI Miho OHARA	36	Introducing speed humps as a countermeasure for enhancing traffic safety in urban residential areas: Some insights from experiments in Japan	Do Duy DINH Aya KOJIMA Hisashi KUBOTA	38	A study of the behavior of a beam column joint with complex arrangement of reinforcing bars by finite element analysis	Liyanto EDDY Kohei NAGAI
	58	Study on victim transportation planning considering street blockades- Case study of expected Tokyo inland earthquake-	Fei JIANG Miho OHARA	50	Some research on air quality of Ulaanbaatar City (Mongolia) in wintertime	O.Enkh-Uyanga P.Chimedtseren G.Solongo	66	Effects of crystalline admixture on compressive strength and shrinkage of concrete with pozzolanic materials.	Viet TRAN HUU Raktipong SAHAMITMONGKOL Somnuk TANGTERMSIRIKUL
	86	Solutions for a higher living quality for people in Hanoi's Old Quarter	LE Thi Hoai An PHUNG Anh Quan	71	Investigating future yield and adaptation measures in rice production under climate change scenarios in Quang Nam province, Vietnam	Trang BUI THI THU Sangam SHRESTHA	110	Effect of heating and re-curing on crack characteristics in cement paste	Yuto HARAGUCHI Michael HENRY Ivan Sandi DARMA Takafumi SUGIYAMA
13:30-15:50	92	A study on post-disaster housing by analyzing the pattern between the regional characteristics and people's preference	Tomoko MATSUSHITA Muneyoshi NUMADA Kimiro MEGURO	87	Anaerobic submerged membrane bioreactor (AnMBR) for centralized municipal wastewater treatment in Vietnam conditions	T. T. V Nga Vu Duc Canh M. Kobayashi S. Wakahara	125	Introduction of CAESAR's research activity utilizing decommissioned bridge in Japan	Akiko HIROE Hidetaka HOMMA Yoshitomi KIMURA

95	Proposed solutions to quality improvement and integrated operations of technical infrastructure systems for new urban areas in Vietnam	Ngoc Khoa HO Hong Hai TRAN Nguyen Van Phuong PHAM	99	HAN-Sense: a solution for traffic air pollution monitoring in Hanoi City using wireless sensor network	Quang Duc LE Phong Thanh BUI Thieu Nga PHAM Nguyet Thi THAI Thuy Duong LE Dang Hai HOANG Thorsten STRUFF	133	Performance of different sacrificial anode materials on corrosion protection of reinforcing steel	Pakawat SANCHAOEN Aris MAHASIRIPANA Somnuk TANGTERMSIRIKUL
101	Study on applicability of remote building damage assessment system for large-scale earthquake disasters - Focused on the photo upload system	Makoto FUJIIU Miho OHARA Kimiro MEGURO	118	Towards sustainable transportation through introduction of eco-drive management system for vehicle fuel efficiency	Dinh Van HIEP Manabu OHNO Yosui SEKI	134	Investigation on performance of concrete and mortar using active compound powder	Parnthep JULNIPITAWONG Chalermchai WANICHLAMLERT
108	Safe and sustainable energy use in tall residential buildings in Hanoi: Practices and orientation	PHAM Thuy An NGUYEN The Quan	98	Compressive strength of ordinary and bridge high performance steel plates: Proposal of nominal design value and corresponding partial safety factor	Viet Duc DANG Yoshiaki OKUI	97	A simple method to determine the unsaturated soil shear strength with respect to a wide range of matric suction	Hoang Viet NGUYEN Thi Dieu Chinh LUU
136	Development of simulation exercise for emergency response headquarters focused on management by objectives	Shinya KONDO	23	Hybrid technology of up-flow anaerobic filter and membrane bio-reactor for recovery energy from rich organic waste stream	Thu Hang DUONG Duc Ha TRAN Hoai Son TRAN Thi Viet Nga TRAN Bich Ngoc HOANG Thuy Lien NGUYEN	111	Large prefabricated pile foundation, a solution for high-rise buildings in Hanoi	Bao Viet NGUYEN
40	Comparing benefits of hydropower development in two boundary systems in the Mekong	Seemanta Sharma Bhagabati	138	The risk assessment by the AHP method and characteristics of the landslides in Sa Pa ,Lao Cai province northern Vietnam.	Takami KANNO Hiroyuki YOSHIMATSU Do Ngoc Trung Nguyen Quoc Hung	3	Sustainability in the concrete industry for construction of cega cities	Kiên TONG Thành LE Lanh PHAM
82	Optimization the use of rice husk ash to increase bearing capacity of difficult soil foundation for low cost housing in Semarang's urban areas.	Silvia Fransisca Herina				10	Slump control of fresh concrete by re-dosing polycarboxylic based superplasticizer and comparison with naphthalene based	Ram Hari DHAKAL Akarawit NARONGKUL Chalermchai WANICHLAMLERT Pitisan KRAMMART

15:50-16:00

COFFEE BREAK

G3: Hall : 2nd floor

Chairman: Dr. Nguyen Hoang Giang

16:00-16:30 **Keynote speaker 3: Prof. Taketo Uomoto - Chief Executive, Public Works Research Institute / Professor Emeritus, University of Tokyo***Utilization of unused and/or non-familiar materials for construction*16:30-17:00 **Keynote Speaker 4: Prof. Nguyen Viet Anh - National University of Civil Engineering***Water management in Vietnamese cities: present status and vision to future*17:00-17:30 **Keynote Speaker 5: Prof. Hiroshi Naito - Architect / Emeritus Professor, the University of Tokyo***Sanriku Tsunami and reconstruction of cities*17:30-18:30 **CLOSING CEREMONY AT G3 Hall**

Young award ceremony

Announcement of USMCA 2014

NUCE's closing speech

ICUS's closing speech

Closing Banquet & Music

DAY 3: October 11, 2013

08:00 AM - 20:00 PM (Field trip)

LOCATION:

Hilton Hanoi Hotel's front door

8:00 Starting from Hilton Hanoi Hotel to Ha Long bay

12:00 Lunch on board in Ha Long bay and other technical activities

16:00 Return to Hanoi

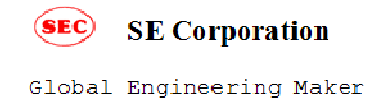
20:00 Arrive Hiton Hanoi Hotel

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