

13th KOREA-JAPAN Joint symposium on Building materials & Construction

16 – 18 Aug 2017

Hanbat National University, Daejeon, Korea

GENERAL PROGRAMME

DAY 1 : Wednesday 16 Aug 2017 at Laon convention hotel

18:30 - 20:30	Registration and Welcome Reception
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DAY 2 : Thursday 17 Aug 2017 at Hanbat National University and Laon convention hotel

Opening ceremony & morning session 09:00 – 12:30

09:00 - 09:30	Registration
09:30 - 10:00	Opening ceremony, Prof. Jeongsoo Nam
	Opening speech : President of symposium, Prof. Sangsoo Lee / Prof. Yuasa Noboru
	Congratulatory message : President of Hanbat National University, Prof. Hayoung Song
	Status report of 13 th Joint symposium : Vice President of symposium, Prof. Gyuyong Kim / Koyama Tomoyuki
	Taking a Group picture

Morning session 10:10 – 12:30

	Construction Technology I Lecture hall 1 Chaired by Hyeonggil Choi Satoshi Fujimoto	Durability I Lecture hall 2 Chaired by Jeongsoo Nam Sachie Sato	Recycling I Lecture hall 3 Chaired by Sungyu Park Toshikatsu Saito	Finishing materials I Lecture hall 4 Chaired by Heesup Choi Takeshi Yokoi
10:10 – 10:30	A study on the construct of methodology for fire safety design of BIM / Byeongheun Lee, Seunghyun Jin, Youngjin Kwon	Relation between Carbonation and Mass Change of Concrete / Michihiko Abe, Yoshihisa Suzuki, Tatsuya Saito	Mechanical properties of fly ash based goepolymer paste and mortar with alkaline activator type / Gyeongtae Kim, Gyuyong Kim, Bokyeong Lee, Jeongsoo Nam, Moohan Kim	Mechanical Properties of Radon Adsorption Board Utilizing Adsorbents / Ohhan Gwon, Sujeong Pyeon, Insoo Kyoung, Donghoon Lee, Sangsoo Lee
10:30 – 10:50	Proposal of Testing Method for Concrete Strength Using Equotip / Akira Nonaka, Noboru Yuasa, Kazuhiro Mitani, Seiji Kanamori	Diffusion of Moisture and Chloride Ion in Repaired Concrete Subjected to Complex Deterioration Environment / Yunmi Kim, Osamu Senbu, Tomoko Fukuyama, Takuya Hasegawa	Effect of alpha-calcium sulfate hemihydrate on setting and drying shrinkage of mortar according to cement types / Kyehyok Lee, Gyuyong Kim, Bokyeong Lee, Jeongsoo Nam, Moohan Kim	Density and Strength Properties of Lightweight Composite Panels according to Mixing Ratio of Paper ash / Wonjong Kim, Taehyun Kim, Jinhyun Shin, Donghoon Lee, Sangsoo Lee
10:50 – 11:10	Study on Deterioration Survey Technology of Panel Members of Building by Acceleration Measurement / Takaaki Ohkubo, Atsushi Teramoto, Daichi AKIYAMA	Properties of drying shrinkage cracking of concrete using dune sand and crushed sand / Euibae Lee, Sangjun Park, Jeongwon Ko, Jaekang Yoo	Experimental study on removal of unburned carbon in fly ash using arc-discharge / Suna Kim, Sungyu Park	Improvement Method of Waterproofing Design for Underground Structure of Apartments in Korea / Junghun Lee, Sangkeun Oh

11:10 – 11:30	A study on fire risk analysis and evacuation safety measures for elderly facilities / Seunghyun Jin Byeongheun Lee Youngjin Kwon	Influence of Pressure generated by Oscillating Water Column Wave Energy Converter on the Chloride Ion Penetration of Concrete / Changhyuck Lim, Youngduck Kim, Gilwon Kim, Jongsu Choi, Keyyong Hong, Bokyeong Lee, Gyuyong Kim	Recent Study on Low Environmental Loading Construction Materials / Daiki Atarashi , Etsuo Sakai	Development of international standardization of test method of test method for performance verification of leakage repair material used in underground concrete structures / Sangkeun Oh, Sooyoun Kim
11:30 – 11:50	A basic study on preventing deterioration of building components by wetting monitoring system / Masatsugu Kizuka, Takaaki Ohkubo, Atsushi Teramoto, Makoto Uehara	Freezing-thawing resistance of slag-replaced concrete and cementless slag concrete / Youngtai Kang, Gyuyong Kim, Gyeongtae Kim, Jeongsoo Nam, Moohan Kim	Properties of mortar with silicon maganese salg aggregate having different cooling condition / Hongbeom Choi, Li Mao, Juheon Lim, Jinman Kim	Development of Structural and Finishing Materials Utilizing Unused Local Resources in the Asian Region / Kenta Tsuchida, Masaki Tamura
11:50 – 12:10	Fundamental Study on Visualization during ASR Degradation by Digital Image Correlation / Atsushi Teramoto , Futa Araki, Takaaki Ohkubo	A Study on the Proposal of Climate Index for Frost Damage of Concrete / Kouta Matsumoto, Nguyen Xuan Quy, Hyeonggil Choi, Yukio Hama	Properties of Non-cement Matrix Based on the Replacement ratio of Powdered Active Carbon / Sujeong Pyeon, Ohhan Gwon, Insoo Kyoung, Donghoom Lee, Sangsoo Lee	Investigation of Deaeration Design Process in Polyurethane Membrane System with Air-permeable Layer / Yosuke Furusawa , Saori Ishihara, Kyoji Tanaka
12:10 – 12:30	Field Survey of Water Content on Reinforced Concrete Members / Koichi Matsuzawa , Takehiko Tanuma, Hiroyuki Miyouchi, Hiroyuki Tanano	A Study on the Maturity and Strength Development of Mortar by Using Frost-Resistance Accelerators Under the Sub-Zero Temperature / Ryota Sato, Hyeonggil Choi, Yukio Hama, Madoka Taniguchi		Dispersibility of organic solvent by surface modification of graphene nanoplatet and mechanical properties of graphene nanoplatelet/epoxy paint / Wonwoo Seo, Gyuyong Kim, Minho Yoon, Jeongsoo Nam, Moohan Kim
Lunch 12:30 – 13:30				
Afternoon session 13:30 – 18:20				
	Construction Technology II Lecture hall 1	Durability II Lecture hall 2	Recycling II Lecture hall 3	Finishing materials II Lecture hall 4
	Chaired by Sangchul Shin Akira Nonaka	Chaired by Guncheol Lee Koichi Matsuzawa	Chaired by Dongcheon Park Daiki Atarashi	Chaired by Dongwoo Ryu Yosuke Furusawa
13:30 – 13:50	A Study on the Impact of Self-curing Effect of Artificial Lightweight Aggregate on Structure Concrete in Hot Weather Environment / Sangchul Shin, Tomoyuki Koyama, Hidehiro Koyamada, Yasuhide Higo	Effet of Sodium Phosphate Ammonium Chloride on pH Reduction of Recycled Aggregate for Road Construction / Kidon Shin, Shan Gao, Guncheol Lee	Strength properties of slag based composite with nano graphene oxide / Li Mao, Jinman Kim, Suin Bang	Experimental Study on Reinforcing Fiber for Civil Engineering used for Waterproofing Protection and Root Resistance Performance / Bumsoo Kim, Sangkeun Oh
13:50 – 14:10	Influence of Wall Effect of Specimen Mold on Voids Distribution and Compressive Strength of Porous Concretes / Toshikatsu Saito , Katsunori Demura	An Experimental Study on the Improvement of Early Strength and Chloride Attack Resistance for Marine Concrete / Yongsang Yoon, Taegy Park, Hyojin Jang, Changhwan Park, Sunghyun Cho, Gyuyong Kim	Properties of Matrix according to Mixing method of Dyeing sludge carbide / Hyunwoong Lee, Sujeong Pyeon, Ohhan Gwon, Donghoom Lee, Sangsoo Lee	Development of Evaluation Technique and Regulation of Standards for Selection of Optimal Waterproofing Method / Jeyoung Song, Sangkeun Oh
14:10 – 14:30	Effect of Placing Time of Concrete on Cold Joint on Hot Weather Concrete in Structure / Sumiya Kozuma, Tomoyuki Koyama, Satoru Honda, Noboru Yuasa, Shin Sangchul, Kazuya Koga, Sadao Maeda, Akira Nonaka, Toshio Shirakawa	Durability of slag concrete considering marine environmental exposure conditions / Bokyeong Lee, Gyuyong Kim, Sangkyu Lee, Jeongsoo Nam, Moohan Kim	Strength Properties according to Addition ratio of Alkali activator of matrix using Paper Ash and Polysilicon sludge / Jinhyun Shin, Taehyun Kim, Wonjong Kim, Donghoom Lee, Sangsoo Lee	Effect of the Absorption and Desorption Property of Floor Covering on Indoor Humidity / Takeshi Kudo, Saori Ishihara
14:30 – 14:50	Evaluation on Ultrasonic Pulse Velocity of Concrete exposed High Temperature / Euichul Hwang, Gyuyong Kim, Gyeongcheol Choe, Jeongsoo Nam, Moohan Kim	Evaluation of Airborne Chloride Ions Transport Situation in Thermal Power Plant / Kohei Sakihara , Yoshitaka Ishikawa, Noriaki Yajima, Yoshitomo Yamada	A Study on the Shrinkage Properties of Concrete by Using Blast Furnace Slag Cement and Frost-Resistant Accelerator / Takumi Noguchi, Hyeonggil Choi, Yukio Hama	Rainwater Drainage of Kokera Roofing Part.1 The Influence of Gap and Roof Pitch on Rainwater Drainage / Mitsuki Sato, Saori Ishihara

14:50 – 15:10	Development of a Nondestructive Evaluation Method for Adhesion Performance in Sealant Joint Using a Circular Injection Jig / Shohei Wada, Saori Ishihara	A Study on Anti-corrosion Performance of Arc Thermal Metal Spray Applied on Steel Structure Using Electro-chemical Method / Hongbok Choe, Hanseung Lee, Manabu Kanematsu	Radon adsorption Properties of Magnesium oxide Matrix according to Replacement ratio of Anthracite / Insoo Kyoung, Sujeong Pyeon, Ohhan Gwon, Donghoon Lee, Sangsoo Lee	Rainwater Drainage of Kokera Roofing Part.2 The Influence of Surface Roughness on Rainwater Drainage of Kokera Single / Hirokazu Miura, Mitsuki Sato, Saori Ishihara
15:10 – 15:30	Trend Survey of Drone Technology and Their Utilization System in the Building Sector / <u>Hiroyuki Miyauchi</u> , Koichi Matsuzawa, Hiroyuki Tanano	Carbonation Behavior of Concrete with Effects of Curing Condition and Mineral Admixtures / <u>Sachie Sato</u> , Yoshihiro Masuda, Naoko Tsuchiya	An analysis on prompt evaluation possibility of Fly ash fineness using Hydrometer / Byeongyong Moon, Mincheol Han, Cheongoo Han	Rendition of construction environment into standardized evaluation criteria by analyzing the present day understanding of waterproofing in international academic and research field / Kyuhwan Oh, Byoungil Kim, Sangkeun Oh
15:30 – 15:50	Improvement of risk assessment and maintenance for vehicle fires in Building and Civil Engineering Structures / Youngjin Kwon	Carbonation and Air Void System of Concrete Using Non-ferous Slag Aggregate / Yuya Kozawa, Michihiko Abe, Tadatsugu Kage, Takatsugu Mano	Physical Properties of Non-cement Matrix According to Replacement ratio of Dyeing sludge carbide / Taehyun Kim, Wonjong Kim, Jinhyun Shin, Donghoon Lee, Sangsoo Lee	Influence of Water Content of Slab Concrete on Joint Tenting of Resilient Floor Covering / <u>Takeshi Yokoi</u> , Yutaro Fujii, Yutaka Yokoyama, Shnitaro Fukuda
Break 15:50 – 16:00				
	Aggregate Lecture hall 1	Material properties I Lecture hall 2	Material properties II Lecture hall 3	
	Chaired by <u>Dongyeop Han</u> <u>Atsushi Teramoto</u>	Chaired by <u>Hyeonggil Choi</u> <u>Saori Ishihara</u>	Chaired by <u>Jeongsoo Nam</u> <u>Hiroyuki Miyauchi</u>	
16:00 – 16:20	Influence of fly ash quality on rheological properties of cement paste / Dongyeop Han, Byeonghoon Baek	Difference in Mix Proportion of Concrete Induces Different Water Movement Inside Cracks / <u>Satoshi Fujimoto</u>	Creep behavior of high strength concrete subjected to elevated temperature / Minho Yoon, Gyu Yong Kim, Gyeongcheol Choe, Jeongsoo Nam, Moohan Kim	
16:20 – 16:40	Monitoring material properties of reinforced concrete structures using 100% recycled aggregate / Inyoung Kang, Gyu Yong Kim, Wonwoo Seo, Jeongsoo Nam, Moohan Kim	Basic Survey on Color Concrete / Koichi Hirasawa, Shun Nakano, Michihiko Abe	Evaluation of spalling property of ultra high strength concrete with Heating rate / Chulwhan Han, Gyu Yong Kim, Jaek Baek, Jeongsoo Nam, Moohan Kim	
16:40 – 17:00	Experimental Study on the Effects of Mix-proportion and Construction Method on Compressive Strength of Rammed Earth / Takumi Aramaki, Shuzo Otsuka, Hajime Kashimura, Noboru Yuasa	Optimum mix design of grout for perplaced aggregate concrete with low strength / Sunmi Choi, Jinman Kim, Jaeseong Yu, Hayoung Choi	Evaluation on Mechanical Properties of PP, NY Fiber Reinforced Ultra-High Strength Concrete at elevated temperature / Jaek Baek, Gyu Yong Kim, Euichul Hwang, Jeongsoo Nam, Moohan Kim	
17:00 – 17:20	Long-term Properties of Concrete with Blast-furnace Slag Fine Aggregate (A Result until the Age of 6 Years) / Tomoki Yamamoto, Tadatsugu Kage, Michihiko Abe	A study on the optimum mixing ratio for weight lighting for light-penetrating concrete / Byoungil Kim, Yoonjung Han	Strain behavior of concrete panel by projectile nose shape / Sangkyu Lee, Gyu Yong Kim, Hongseop Kim, Jeongsoo Nam, Moohan Kim	
17:20 – 17:40	A study on the strength properties of concrete containing high volume blast furnace slag powder by replacement ratio of lightweight aggregate / Younguk Kim, Dobin Kim, Sungjin Kim, Jounghyeon Ban, Junmo Choi, Sejin Choi	Tensile properties of hybrid fiber reinforced cement composite according to strain rate / Minjae Son, Gyu Yong Kim, Hongseop Kim, Jeongsoo Nam, Moohan Kim	Evaluation of static mechanical properties and impact resistance of amorphous metallic fiber reinforced cement composite / Iisu Kang, Gyu Yong Kim, Minjae Son, Jeongsoo Nam, Moohan Kim	
17:40 – 18:00	A Study on Distinction of Mixed Fine Aggregate / Takehisa Nakamura, Michihiko Abe	Characteristics of alkali-activated slag-red mud soil pavement by red mud content / Byeongil Hwang, Hyeju Kang, Sukpyo Kang	Explosion Properties of HPRFCC According to Fiber Combinations and Contents / Jaehyeon Lee, Woungseon Jung, Mincheol Han, Cheongoo Han	

18:00 – 18:20	Variation Color of Local Produced Mud Wall as Landscape Element form Stand Point of Japanese Regional Characteristics in Asia / Maho Umemoto, Masaki Tamura	Efflorescence characteristics of alkali-activated Slag-Red Mud Cement Mortar / Hyeju Kang, Byeongil Hwang, Sukpyo Kang	An Experimental Study on Distributions of Compressive Strength and Water Content of Low Water to Cement Ratio Cement Paste Specimen with High Temperature History / Keito Tsutaki, Sachie Sato, Ippei Maruyama, Takafumi Noguchi	
Banquet & Closing ceremony 19:00 – 21:00 at Laon convention hotel (Prof. Gyuyong Kim, Prof. Koyama Tomoyuki)				
	Greeting : Emeritus professor Moohan Kim / Emeritus professor Tanaka Kyoji			
	Congratulatory message			
	History of symposium, Prof. Gyuyong Kim			
	Performance			
	Presentation award			
	Announcement of next venue			

DAY 3 : Friday 18 Aug 2017 Daejeon & Jeonju & Gongju	
8:30	Departure at Laon convention hotel daejeon
09:30 – 12:00	Jeonju hanok village tour
12:00 – 14:00	Lunch
14:00 – 15:00	Visiting Gongju city hall
15:00 – 16:00	Gongju Gongsanseong Fortress tour (world heritage by UNESCO)
17:00	Arrive at Laon convention hotel daejeon