



“Collaborative research network on standardization of design and construction for hot weather concreting based on Asian climate and materials”

JSPS Core-to-core program (Asia-Africa Science Platforms)



Seminar

“Measures for Hot Weather Concreting in Asian Countries and The Issue Analysis Based on Climate and Materials”

Date: From 19th to 21th September, 2017

*Venue: Room 503, 5th floor, Main Building
Sirindhorn International Institute of Technology
Thammasat University, Thailand*

Program:

19th	10:00-18:00	Keynote lectures and research presentation by researchers <i>Keynote speakers</i> Prof. Somnuk TANGTERMSIRIKUL Prof. Ryoichi SATO Assoc. Prof. Dr. Van Tuan NGUYEN Prof. Anura NANAYAKKARA
20th	9:00-17:00	Research presentation by graduate students
21th	9:00-16:00	Site visit



Program of seminar "Measures for hot weather concreting in Asian countries and the issue analysis based on climate and materials"

1st day (2017/9/19)				
Time		Presentation title	Presenter	Affiliation
10:00	10:15	Introduction of Collaborative research network on standardization of design and construction for hot weather concreting based on Asian climate and materials (JSPS core-to-core project)	Dr. Shingo ASAMOTO	Saitama University
Keynote lectures				
10:15	11:00	Introduction of SIIT and Two Decades of Coal Ash Utilization	Prof. Somnuk TANGTERMSIRIKUL	Thammasat University, SIIT
11:00	11:45	JCI Guidelines for Control of Cracking of Mass Concrete 2016	Prof. Ryoichi SATO	Hiroshima University
11:45	13:00	Lunch time		
13:00	13:45	Some Studies on Behaviour of Concrete in Vietnamese Tropical Climate Condition	Dr. Nguyen Van Tuan	National University of Civil Engineering, Vietnam
13:45	14:30	Detrimental Effects due to Excessive Temperature Rise in Concrete at Early Age	Prof. Anura NANAYAKKARA	University of Moratuwa
14:30	15:30	Open discussion		
15:30	16:00	Coffee Break		
Japanese researchers presentation				
16:00	16:20	Plastic shrinkage & Early-age shrinkage	Dr. Keisuke TAKAHASHI	UBE Industries, LTD.
16:20	16:40	Diagnosis of ASR and DEF	Dr. Yuichiro KAWABATA	Port and Airport Research Institute
16:40	17:00	Inspection of Deteriorated Structures in Thailand and Myanmar using Non-Destructive Methods	Dr. Michael HENRY	Hokkaido University
17:00	17:20	Chloride Ingress in Concrete with Mineral Admixture	Dr. Yuya TAKAHASHI	The University of Tokyo
17:20	17:40	Effect of Internal Cracking on Mass Transfer Resistance of Cover Concrete	Dr. Shinichiro OKAZAKI	Kagawa University
2nd day (2017/9/20)				
Research presentation by graduate students and researchers				
9:00	9:20	On-site carbonation measurement of Expressway in Bangkok Metropolitan Area	Wissawin ARCKARAPUNYATHORN	King Mongkut's University of Technology Thonburi
9:20	9:40	Implication of Predicting Serviceability performance of Reinforced Concrete Subjected to Excessive Shrinkage Conditions found in Tropical Climates	Rasitha Niranga MADDAWATTTHAGE	University of Ruhuna
9:40	10:00	Fracture energy of concrete subjected to elevated temperature at early age	Xiangen WANG	Hiroshima University
10:00	10:20	Preliminary Field Survey of Deteriorated Concrete Structures in Thailand and Japan with Non-destructive Methods Case Study : Short Span Bridges in Bangkok and Uwajima	Junya SATO	Saitama University
10:20	10:40	Coffee Break		
10:40	11:00	Performance Evaluation of Fly Ash as Cementitious Material for Contributing to Strength Development of Mortar	Tan Phat HUYNH	Hiroshima University
11:00	11:20	Some experimental results of Very High Strength Concrete using a combination of silica fume and fly ash in Vietnam	Van Sang LUU	National University of Civil Engineering, Vietnam
11:20	11:40	Effects of High LOI Fly Ash on Properties of Concrete	Youphalat PHETHANY	Thammasat University, SIIT
11:40	12:00	Pore Structure in Hardened Cement Paste by Thermoporometry	Yosuke ANADA	Saitama University
12:00	13:20	Lunch time		
13:20	13:40	Chloride Resistance of Fly Ash Concrete Cured Internally by Roof Tile Waste	Tatsuya KITAGAWA	Hiroshima University
13:40	14:00	Evaluation of Pumpability of High Slump Concrete	Kurigamage Dilini Nuwanthika PERERA	University of Moratuwa
14:00	14:20	Fly ash in Vietnam	Lam Trong NGUYEN	Saitama University
14:20	14:40	Thermal Transient Analysis of Concrete Arch Dam Considering Effects of Solar Radiation and Variation of Reservoir Water Temperature	Kiet Anh BUI	Thammasat University, SIIT
14:40	15:00	Coffee Break		
15:00	15:20	Analysis of concrete immersed in sulfuric acid solution for a long term	Keisuke TSUBONE	Hiroshima University
15:20	15:40	Some Problems of Cracking on Concrete and Reinforced Concrete in Vietnam	NGUYEN Manh Hung	National University of Civil Engineering, Vietnam
15:40	16:00	Condition Assessment, Repair and Retrofitting of Existing Bridges in Sri Lanka due to Chloride Effect	Janaka Pushpakumara BINDU HEWA	University of Ruhuna
16:00	16:20	Research and Development of UHPC in NUCE	Dr. NGUYEN Cong Thang	National University of Civil Engineering, Vietnam

Site Visit Program

Maintenance of Infrastructure in Thailand

Date: 21 September 2017 (Thursday)

Host organization:

Electricity Generating Authority of Thailand (EGAT)

Expressway Authority of Thailand (EXAT)

King Mongkut's University of Technology Thonburi (KMUTT)

Schedule:

Time	Activity	Venue
8:30	Departure from Accommodation	
10:00 – 10:45	Site visit for Burapha Withi Expressway	Burapa Withi Expressway (the 30 th km)
11:15 – 12:00	Site visit to Cooling Tower of Bang Pa Kong Power Plant	Bang Pa Kong Power Plant
12:00	Lunch	
13:30 – 14:00	Maintenance Planning & Execution of Burapa Withi Expressway (by EXAT Officer)	
14:00 – 14:30	Maintenance Planning & Execution of Bang Pakong Power Plant (by EGAT Officer)	
14:30 – 15:00	Open Discussion	
15:00	Closing Speech	

Number of Participants: 45 Persons

30 Oversea participants (14 Japanese, 8 Sri Lankan, 8 Vietnamese)

10 Thai Academic Participants

5 Participants from EXAT

5 Participants from EGAT

Note: This site visit is a part of JSPS Core-Core Program “Collaborative Research Network on Standardization of Design and Construction for Hot Weather Concreting Based on Asian Climate and Materials”

Registered participant list

Thailand	
Prof. Somnuk TANGTERMSIRIKUL	SIIT
Dr. Pakawat SANCHAROEN	SIIT
Dr. Warangkana SAENGSOY	SIIT
Dr. Raktipong SAHAMITMONGKOL	KMUTT
Mr. Kiet Anh BUI	SIIT
Mr. Youphalat PHETHANY	SIIT
Mr. Wissawin ARCKARAPUNYATHORN	KMUTT
Students and others	
Japan	
Dr. Shingo ASAMOTO	Saitama Univ.
Dr. Yao LUAN	Saitama Univ.
Mr. Lam Trong NGUYEN	Saitama Univ.
Mr. Yosuke ANADA	Saitama Univ.
Mr. Junya SATO	Saitama Univ.
Dr. Kohei NAGAI	Univ. of Tokyo
Dr. Koji MATSUMOTO	Univ. of Tokyo
Dr. Yuya TAKAHASHI	Univ. of Tokyo
Prof. Ryoichi SATO	Hiroshima Univ.
Dr. Yuko OGAWA	Hiroshima Univ.
Mr. Phat Tan HUYNH	Hiroshima Univ.
Mr. Keisuke TSUBONE	Hiroshima Univ.
Mr. Tatsuya KITAGAWA	Hiroshima Univ.
Mr. Xiangen WANG	Hiroshima Univ.
Dr. Isao KURASHIGE	CRIEPI
Dr. Yuichiro KAWABATA	PARI
Dr. Shinichiro OKAZAKI	Kagawa Univ.
Dr. Keisuke TAKAHASHI	Ube Industries, Ltd.
Dr. Michael HENRY	Hokkaido Univ.
Mr. Gen KUROSAWA	Hokkaido Univ.
Ms. Chika YAMASAKI	Hokkaido Univ.
Vietnam	
Dr. Hoang Giang NGUYEN	NUCE
Dr. Hung Phong NGUYEN	NUCE
Dr. Van Tuan NGUYEN	NUCE
Dr. Ton Kien TONG	NUCE
Dr. Cong Thang NGUYEN	NUCE
Mr. Manh Hung NGUYEN	NUCE
Mr. Van Sang LUU	NUCE
Mr. Van Dong NGUYEN	NUCE
Sri Lanka	
Prof. Siriwetti Mohottige Anura NANAYAKKARA	Univ. of Moratuwa
Ms. Kurigamage Dilini Nuwanthika PERERA	Univ. of Moratuwa
Dr. Gallage Sudhira Yasapriya DE SILVA	Univ. of Ruhuna
Dr. Harsha Priyankara SOORIYAARACHCHI	Univ. of Ruhuna
Mr. Janaka Pushpakumara BINDU HEWA	Univ. of Ruhuna
Mr. Rasitha Niranga MADDAWATTHAGE	Univ. of Ruhuna
Mr. Kalinda Dasanayaka	Siam City Cement
Mr. Madduma Thennekoon	Siam City Cement