

Symposium Program***The 6th Asia and Pacific Young Researchers and Graduates Symposium*****Venue:** Sirindhorn International Institute of Technology (SIIT), Thammasat University**Date:** 31st July – 1st August 2014**Day 1 (31st July 2014)*****Morning Session***

Room #414	
9:00 – 9:30	Welcome Speech Prof. Dr. Somnuk Tangtermsirikul Director, Sirindhorn International Institute of Technology (SIIT) Thammasat University
9:30 – 10:30	<u>Keynote Presentation</u> Maintenance Management on Health Monitoring System of Cable Bridge Dr. Dae-Joong Moon EJ Tech Corporation, Republic of Korea
10:30 – 11:00	Coffee Break
11:00 – 12:00	<u>Keynote Presentation</u> Some Characteristic Properties of Cementitious Materials Dependent on the Behavior of Water in Minute/Narrow Spaces Prof. Dr. Toshiharu Kishi The University of Tokyo, Japan
12:00	Group Photos & Lunch

Afternoon Session

	Room #411	Room #416
13:30 – 15:10	Parallel Session 1A	Parallel Session 1B
15:10 – 15:30	Coffee Break	
15:30 – 17:10	Parallel Session 2A	Parallel Session 2B
Relaxation Time		
17:30	Transportation to Banquet	
19:00	Banquet	

Note: 20 minutes is allocated for each presentation. The presentation should not be longer than 15 minutes in order to have some discussions after each presentation.

Day 2 (1st August 2014)**Morning Session**

	Room #411	Room #416
9:30 – 10:30	Parallel Session 3A	Parallel Session 3B
10:30 – 11:00	Coffee Break	
11:00 – 12:00	Parallel Session 4A	Parallel Session 4B
12:00	Lunch	

Afternoon Session

	Room #414
13:30 – 14:30	ACF Special Session
14:30 – 15:00	Announcement of ACF Outstanding Paper Award
15:00 – 15:30	Closing Speech

Note: 20 minutes is allocated for each presentation. The presentation should not be longer than 15 minutes in order to have some discussions after each presentation.

Technical Sessions

Session 1A: (31st July 2014, 13:30 – 15:10 Room 411)

Session Chair: Dr. Yazuxi Tanaka, Dr. Suchart Limkatanyu

Wavelet Analysis of Acceleration and Strain Measurements of a High-Speed Train Railway Bridge

Mohamed A. Sayed, Mosbeh R. Kaloop, Hogeun Cho, Eunsung Kim and Dookie Kim

Comparative Study of Frame and Shell Elements in Modeling of High Speed Railway Bridge

Songsak Suthasupradit, Piyarat Paoleng and Rattapoohm Parichatprecha

Static Flexural Strength of Grid Structured GFRP Decks

H. Onishi and K. Yaegashi

Effect of Soil-Foundation-Structure Interaction of a Seismically Base-Isolated Nuclear Power Plant

Sunghyuk Go, Dookie Kim, Hogeun Cho, and Sung-Gook Cho

Study of Continuum Finite Element Model for Dynamic Laterally Loaded Pile Analysis

P. Thammarak and K. Tantayopin

Session 1B: (31st July 2014, 13:30 – 15:10 Room 416)

Session Chair: Dr. Shingo Asamoto, Dr. Withit Pansuk

Effect of PET Fibres Different Aspect Ratio on Fresh and Mechanical Properties of Cement Concrete

Raju, Rohin Kausik, Tarun Sharma

Mechanical Properties of Geopolymer Mixed with Steel Fiber Reinforced Concrete

Rachamongkon Wongruk, Smith Songpiriyakij, Piti Sukontasukkul and Prinya Chindaprasert

Chloride Penetration Resistance and Chloride Binding Capability of Cement Paste with Mineral Admixtures

W. Soonjun, R. Sahamitmongkol and S. Tangtermsirikul

Study on Chloride Resistance Properties of Concrete in a Port

Jianfeng Dong, Yueliang Gan, Qiming He, Yunlai Tao, Ming Ji and Yuxi Zhao

Elucidation of Rapid Reduction of Water Flow through Concrete Crack Regarded as Self-healing Phenomenon

H. Ikoma, T. Kishi, Y. Sakai, and M. Kayondo

Session 2A: (31st July 2014, 15:30 – 17:10 Room 411)

Session Chair: Dr. Kohei Nagai, Dr. Panchet Thammarak

Symbolic Finite Element Programming for Closed-Form Analysis of Unit Cells of 2D Periodic Cellular Solids

P.Sam, K. Theerakittayakorn and P. Nanakorn

Rapid Prediction of Long-term Deflections in High-rise Composite Frames using Neural Networks

Sandeep Chaudhary, Umesh Pendharkar, K.A. Patel, and A.K. Nagpal

Euler-Bernoulli Beam Element Based on Modified Strain-Gradient Elasticity Theory

S. Limkatanyu

Exact Stiffness Matrix for Modified Strain-Gradient Bars Embedded in Elastic Substrate Media: the Virtual Displacement Derivation

S. Limkatanyu

Numerical Modelling of Moisture Penetration in Concrete Subjected to Intermittent Rain-spells

K. Sarkar and B. Bhattacharjee

Session 2B: (31st July 2014, 15:30 – 17:10 Room 416)

Session Chair: Dr. Hwa Kian Chai, Dr. Warangkana Sangsoy

Effect of Pozzolanic Materials on Thermal Properties and Compressive Strength of Hardened Mortar and Concrete

V. Tran Huu, R. Sahamitmongkol and S. Tangtermsirikul

Effect of Moisture Content of Wet Fly Ash on Properties of Paste and Mortar

Thuy Bich Thi Nguyen, Warangkana Saengsoy, Somnuk Tangtermsirikul

Evaluation of Threshold Pore Diameter of Concrete Using a Novel Method and Non-destructive Tests

Y. Sakai and T. Kishi

Development of a Novel Non-Destructive Test Method to Evaluate the Distribution of Air Permeability in the Depth Direction in Concrete

Isao Kurashige and Michihiko Hironaga

Studies on Concrete Made with RCA under Laboratory Conditions

K. Usha Nandhini, S. Jayakumar and S. Kothandaraman

Session 3A: (1st August 2014, 9:30 – 10:30 Room 411)**Session Chair:** Dr. Sandeep Chaudhary, Dr. Yew-Chin Koay**Comparison of Effects of Viscous and Structural Damping on Dynamic Responses of Structures**

SeongOh Guk, Dookie Kim, and Md. Kamrul Hassan

Comparison of Earthquake Resistant Design of Flat-slab RC Building and Regular RC Framed Building with Varied Shear Wall Configuration

Kumaraguru S. and Vinoth Kumar N.

Study on TSUNAMI Force Acting on Bridges

Y. Tanaka, K. Maruyama, N. Kenmotsu, and M. Watanabe

Session 3B: (1st August 2014, 9:30 – 10:30 Room 416)**Session Chair:** Dr. Isao Kurashige, Dr. Chalermchai Wanichlamlerd**Investigation into Characteristics of Cementitious Materials Exposed to High Temperature**

S. Asamoto, K. Murano, I. Kurashige and D. Minato

The Observations of Aesthetic Damage to Oven-dried Mortar Exposed to Fire

O. Rongviriyapanich, Y. Sato and W. Pansuk

Development of Tomography Reconstruction Techniques for Concrete Using Elastic Wave Time and Frequency Domain Parameters

Kit Fook Liu, Hwa Kian Chai, Yoshikazu Kobayashi and Tomoki Shiotani

Session 4A: (1st August 2014, 11:00 – 12:00 Room 411)**Session Chair:** Dr. Jian-Guo Dai, Dr. Pakawat Sancharoen**Two-dimensional Ray-trace Technique for Anisotropic Materials**

Y. Kobayashi, T. Shiotani, S. Momoki and K. Oda

Parametric Study of Surface Rayleigh Waves Propagating in Concrete with Sub-surface Delamination

Foo Wei Lee and Hwa Kian Chai

Case Study: Culvert Replacement Options for Princess Highway over Little River Anabanch

Y.C. Koay, P. Sing and G. Noyes-Brown

Session 4B: (1st August 2014, 11:00 – 12:00 Room 416)**Session Chair:** Dr. Yuya Sakai, Dr. Parnthep Julnipitawong**Recycling of Pile Heads as Concrete Masonry Units**

Gopala Krishna M.B., Shivananda K.R., and Dr.Prakash P

Evaluation of Pathogen Destruction in Chicken Manure using “Serial self-turning Reactor (STR)’ Technology at Different Mixing Ratios

Long Sy Doan and Taweeep Chaisomphob

Comparative Study on Embodies Energy of RAC and NAC

K. Usha Nandhini, S. Jayakumar and S. Kothandaraman

ACF Special Session: (1st August 2014, 13:30 – 14:30 Room 411)**Session Chair:** Dr. Yoshikazu Kobayashi, Dr. Raktipong Sahamitmongkol**Mechanical Performance of Slag-Based Geopolymer Cement Mortar Reinforced with Different Types of Short Fibers**

Tao Li, Jian-Guo Dai and Yamei Zhang

An Analytical-numerical Procedure Incorporating Cracking in RC Frames at Service Load

K.A. Patel, Sandeep Chaudhary, and A.K. Nagpal

Numerical Simulation of Failure of Beam-Column Joint with Mechanical Anchorage by 3D Discrete Analysis

Tao Wang, Liyanto Eddy and Kohei Nagai

Symposium Venue

Sirindhorn International Institute of Technology (SIIT)

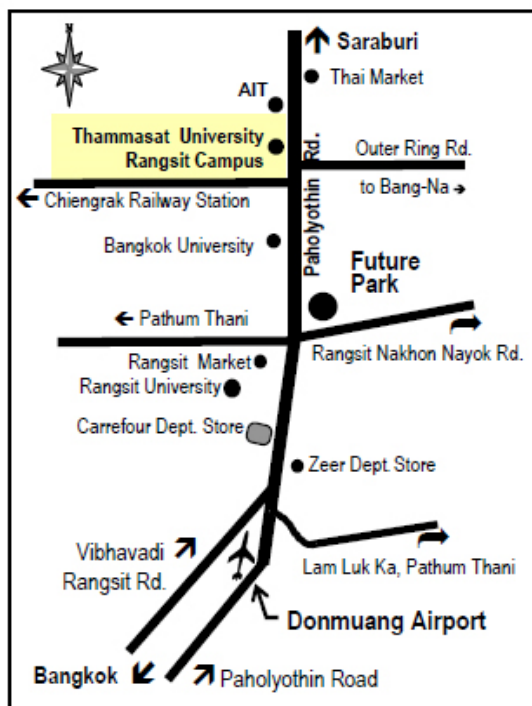
Thammasat University (Rangsit Campus)



Sirindhorn International Institute of Technology (SIIT) is offering 9 international programs in Engineering, Technology, and Management. It was, in 1992, founded by the Federation of Thai Industries (FTI), Japan Federation of Economic Organizations (Keidanren), and Thammasat University.

Website: <http://www.siit.tu.ac.th>

GPS: 14.068924, 100.607429



Donmuang Airport to TU-Rangsit Campus

Location (Thammasat Rangsit Campus)

SIIT is located in Thammasat University (Rangsit Campus), it is approximately 35 km north of Bangkok city.

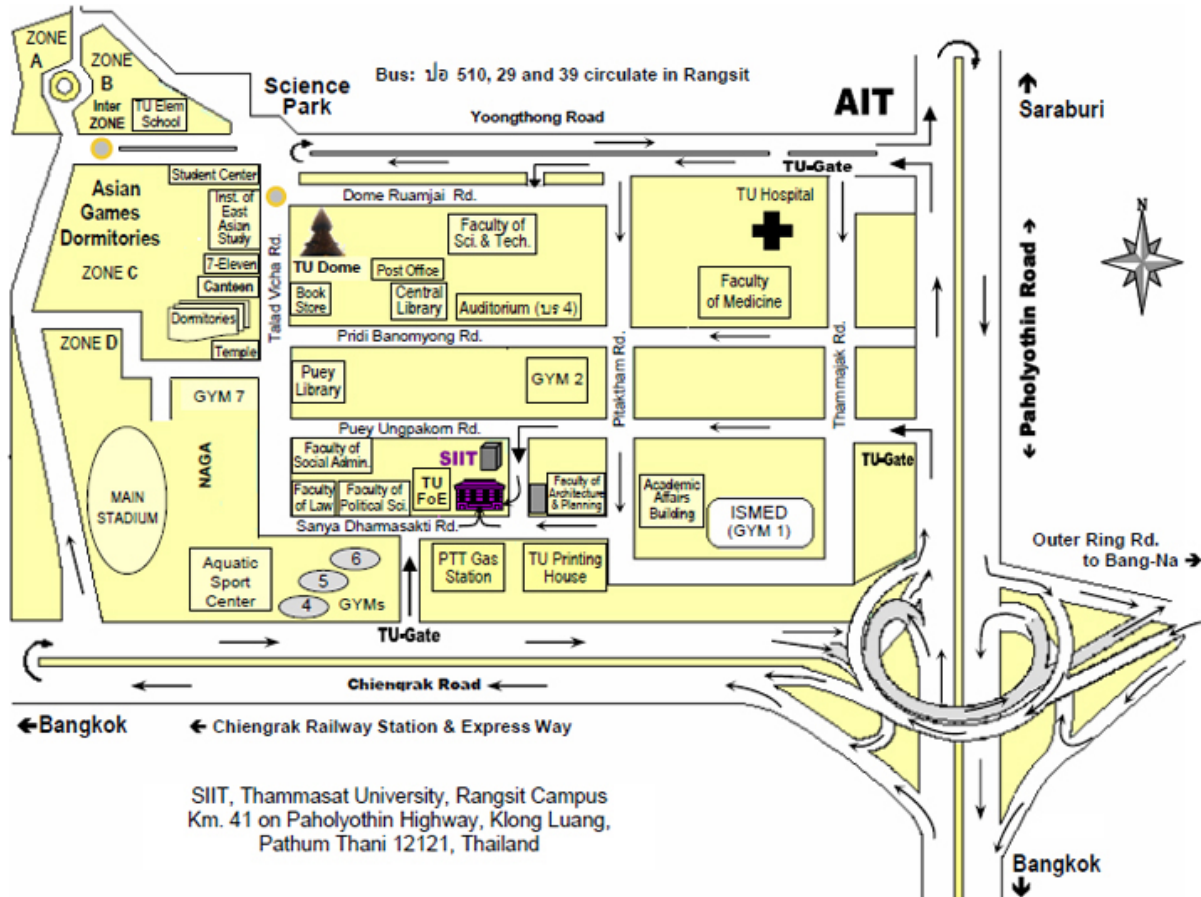
The most convenient way to come to SIIT is by Taxi since the mass rapid transit to Thammasat University (Rangsit Campus) is still under construction. Most Taxi drivers know Thammasat University (Rangsit Campus).

Thailand has two airports. The new international airport "Suvarnabhumi Airport" is located east of Bangkok and is approximately 65 km away from SIIT. The other airport "Donmuang Airport" which is now used for low-cost airline is closer to SIIT.

Note: Thammasat University has two main campuses "Taprachan" and "Rangsit". Please make sure you come to "Rangsit Campus".

Map Inside Thammasat University (Rangsit Campus)

The map below shows the SIIT location in Thammasat University. It is positioned in between the 'Faculty of Engineering' and 'Faculty of Architecture & Planning'. If you enter Thammasat from Paholyothin Road through First gate into Puey Ungpakorn Rd., SIIT is on your left-hand side.



Recommended Accommodation

Asia Airport Hotel

Website: http://www.asiahotel.co.th/asia_airport.htm

GPS: 13.962020, 100.623716 (approximate location)

The Asia Airport Hotel is located in a complex situated 3 kms north of the former Bangkok domestic and international airport (Don Muang Airport). There are many excellent facilities for the weary traveler, including a lounge, lobby, coffee shop (5.30 am-1.00 am), Room service (24 hr), swimming pool, fitness room, table-tennis, video and music room, study area, snooker room and traditional Thai foot and body-massage. The lower floors of the complex have many shops, local and international restaurants.

The hotel is offering special room rates for participants of YRGS2014 symposium and we are preparing transportation van between the hotel and SIIT in the morning of 31st July and 1st August 2014.

