



AIT-KU JOINT SYMPOSIUM ON HUMAN SECURITY ENGINEERING

Theme

Establishing the discipline of Human Security Engineering and Broadening a Network for Human Security in Asian Megacities

Venue

Chaophya Park Hotel, Bangkok, Thailand

Date

November 19-20, 2009

Organized by:

**Asian Institute of Technology,
Kyoto University
and**

Kyoto University Global COE "Human Security Engineering for Asian Megacities"

ORGANIZATION

Asian Institute of Technology, Bangkok, Thailand
Kyoto University, Japan
Kyoto University Global COE "Human Security Engineering for Asian Megacities"

BACKGROUND AND SCOPE

Fulfilling basic human needs and assuring the self-sustainable recovery from environmental pollution and disasters in Asian Megacities have been the major challenges for several decades, and the situation still needs more improvement. Against such a background, Kyoto University has launched a new Global Center Of Excellence (GCOE) Program entitled "Global Center for Education and Research on Human Security Engineering for Asian Megacities" since 2008 fiscal year. The purpose of this GCOE program is to establish

the discipline of "Urban Human Security Engineering" and to provide education for next-generation researchers and high-level practitioners for human security in Asia.

One of the characteristics of this GCOE program is to implement area-specific research and education. The program set up 6 overseas bases and Asian Institute of Technology (AIT) in Bangkok is one of them.

The symposium aims to deepen the understanding of urban human security engineering and develop its policy and implementation. In addition, the symposium will contribute to strengthen a broad range of human security network between ASEAN countries through the distinguished speakers who are invited from the countries.

URBAN HUMAN SECURITY ENGINEERING

"Urban Human Security Engineering" is defined as a system of technologies (techniques) for designing and managing cities that enable their inhabitants to live under better public health conditions, and also live free from potential threats of large-scale disasters and environmental destruction. For establishing this discipline, four existing fields, i.e. urban governance, urban infrastructure management, health risk management, and disaster risk management, are integrated into one discipline. The program of the symposium will include four research fields which Human Security Engineering consists of.

OBJECTIVES

Key objectives of the conference are:

- To discuss the new discipline of Human Security Engineering
- To broad a network for human security among not only Thailand and Japan, but also the other Asian Countries
- To promote interaction between researchers and practitioners

Topics of interest in this AIT-KU Joint Symposium includes (but not limited to):

1. Urban Governance
2. Urban Infrastructure Asset Management
3. Environmental Accounting of Infrastructure Project
4. Urban Energy Security Engineering

5. Urban Food Security Engineering
6. Urban Transport and Logistics
7. Urban Disaster Prevention

WHO SHOULD ATTEND THE CONFERENCE?

We are pleased to welcome all researches, practitioners, and students who are interested in Human Security Engineering.

LANGUAGE

The official language of the conference is English.

ORGANIZING BODIES

The conference is jointly organized by the Asian Institute of Technology, Thailand, the Faculty of Engineering, Kyoto University, Japan and Global COE "Human Security Engineering for Asian Megacities"

ASIAN INSTITUTE OF TECHNOLOGY promotes technological change and sustainable development in the Asian-Pacific region through higher education, research and outreach. Established in Bangkok in 1959, AIT has become a leading regional postgraduate institution and is actively working with public and private sector partners throughout the region and with some of the top universities in the world.

KYOTO UNIVERSITY was founded in 1897, the second university to be established in Japan. Known for its pioneering spirits and academic freedom, the university has produced five Nobel laureates and two Fields medalists.

Global COE(Centers of Excellence) Program, which has been carried out by Japan's Ministry of Education, Culture, Sports, Science and Technology (MEXT) , will provide funding support for establishing education and research centers that perform at the apex of global excellence to elevate the international competitiveness of the Japanese universities. The program will strengthen and enhance the education and research functions of graduate schools, to foster highly creative young researchers who will go on to become world leaders in their respective fields through experiencing and practicing research of the highest world standard.

CONFERENCE VENUE

Chaophya Park Hotel, 247 Rachadapisek Road,
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Email : info@chaophyapark.com

Map:



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Assoc. Prof. Mukand S. Babel (AIT)

Assist. Prof. Pham Huy Giao (AIT)
Assist. Prof. Kunnawee Kanitpong(AIT)
Dr. Lal Samarakoon (AIT)

KEYNOTE SPEAKERS

Kenichi SOGA (Prof., Cambridge, University)
TBA (Asian Institute of Technology)

PAPER DEADLINE

The speakers are requested to write a paper following the template, which is downloadable from the conference website. The due date for paper submission is *October 20th, 2009*. Please send a paper to Dr. Mamoru Yoshida, who is a general secretariat of this symposium.

REGISTRATION (registration fee)

Please send your name and affiliation to Dr.Mamoru Yoshida, who is the general secretariat of this conference, by November 12th, 2009. All participants are free to attend the conference.

GENERAL SECRETARIAT CONTACT DETAILS

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CONFERENCE WEBSITE

<http://hse.gcoe.kyoto-u.ac.jp/aitku/hp/index.html>

1st day (November 19)

8:30-9:30	Registration
9:30-9:45	Opening ceremony
9:45-10:45	Keynote Address (1), Kenichi Soga (Cambridge Univ.)
10:45-11:00	Coffee Break
11:00-11:30	Bangkok Human security Outline Oravit Hemachudha (BMA)
11:30-13:00	Lunch
<u>Session 1: Urban Governance</u>	
13:00-13:30	Urban Governance Prof. Kiyoshi Kobayashi (KU)
13:30-14:00	<TBA> Prof. Zulkifli Yusop
14:00-14:30	Institutional Setting for Inter Local Government Collaboration in Indonesian Metropolitan Transport Planning Dr. Miming Miharja(ITB)
<u>Session 2: Urban Infrastructure Management (1)</u>	
14:30-15:00	Structure Management (1) Prof. Hiromichi Shirato (KU)
15:00-15:30	Systemic Qualities of Infrastructure Maintenance Programs Assoc. Prof. Chan Weng Tat (NUS)
15:30-16:00	Thailand Pavement Management System (TPMS 2009) Assoc. Prof. Wisanu Subsompon (Chulalongkorn University)
16:00-16:15	Coffee Break
<u>Session 3: Urban Infrastructure Management (2)</u>	
- Transport Logistics System -	
16:15-16:45	Concepts and Visions for Urban Transport and Logistics Prof. Eiichi Taniguchi (KU)
16:45-17:15	Logistics in case of natural disasters Dr. Sideney Schreiner(KU)
17:15-17:45	Effectiveness of Speed Enforcement in Thailand: Current Issues and New Approaches Dr. Kunnawee Kanitpong(AIT)
19:00-	Reception

2nd day (November 20)

<u>Session 4: Urban Infrastructure Management (3)</u>	
- Geotechnical Structure Management -	
9:00-9:30	Introduction to geotechnical Asset Management Prof. H. Ohtsu (KU)
9:30-10:00	The Problem of Severe Coastal Erosion of Bangkok and Mitigation Measures Adopted Assoc. Prof. P. Noppadol (AIT)
10:00-10:30	Rehabitation and maintenance planning of Burapawithi's approach ramp, Bangkok-Chonburi Expressway Dr. S. Suttisak (Kasetsart Univ.)
10:30-10:45	Coffee Break
<u>Session 5: Urban Infrastructure Management (4)</u>	
10:45-11:15	Urban Energy System (1) Prof. T. Matsuoka (KU)
11:15-11:45	Application of Environmental Accounting System for Infrastructure in Bangkok Assoc. Prof. T. Shiotani (KU)
11:45-12:15	Urban Energy System (2) Dr. H. Giao (AIT)
12:15-13:00	Lunch
<u>Session 6: Urban Infrastructure Management (5)</u>	
-Water Resource Management & Food Supply System-	
13:00-13:30	Impact Analysis of Climate Change on Water Resources in Japan and Thailand using a CGM Hydrologic Projections and a Distributed Rainfall-Runoff Model Assoc. Prof. Y. Tachikawa (KU)
13:30-14:00	Climate change and Thailand: livelihood, food production and development at risk Assoc. Prof. Mukand S. Babel (AIT)
14:00-14:30	Collaboration for Capacity Building in Asia-Pacific Dr. Lal Samarakoon (AIT)

14:30-14:45 Coffee Break

Session 7: Health Risk Management

14:45-15:15	Application of QMRA for environmental sanitation planning in urban/peri-urban cities, Dr. Thammarat Koottatep (AIT)
15:15-15:45	Procedure development of alternative sanitation system selection in developing countries based on their constraints. Prof. Shigeo Fujii (KU)
15:45-16:15	Emerging Chemical Pollution in Urban Water Environment: PFOA/PFOS Chemical risk in Bangkok Water Sources: Prof. C. Visvanathan(AIT)

Session 8: Disaster Risk Management

- Disaster Prevention against Natural & Man-Made Hazards -	
16:15-16:45	Assessing Potential Earthquake Losses in 3 Major Cities in Bangladesh Assoc.Prof. Pennung Warnitchai
16:45-17:15	Tsunami loading, from experiments to field load test Prof. Panitan Lukkunaprasit (Chulalongkorn University)
17:15-17:45	Disaster mitigation for subway system Prof. Junji Kiyono (KU)
17:45-18:00	Closing Ceremony

แบบตอบรับ

เข้าร่วมสัมมนาวิชาการ

เรื่อง “Establishing the discipline of Human Security Engineering and Broadening a Network for Human Security in Asian Megacities”

วันที่ 19-20 พฤศจิกายน 2552 ณ โรงแรม โรงแรมเจ้าพระยาปาร์ค กรุงเทพมหานคร

หน่วยงาน.....

รายชื่อ

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การลงทะเบียน ฟรี

*** โปรดส่งข้อมูลนี้กลับมาที่ ภาควิชาวิศวกรรมธรณีเทคนิคและสิ่งแวดล้อม สำนักวิศวกรรมและเทคโนโลยี สถาบันเทคโนโลยีแห่งเอเชีย ภายในวันที่ 13 พฤศจิกายน 2552

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เรื่อง ขอเชิญเข้าร่วมสัมมนาวิชาการเรื่อง Establishing the discipline of Human Security Engineering and Broadening a Network for Human Security in Asian Megacities

เรียน ผศ.ดร.สุทธิศักดิ์ ศรีสัมพันธ์

- สิ่งที่ส่งมาด้วย 1. โครงการและกำหนดการ จำนวน 1 ฉบับ
2. หนังสือตอบรับ จำนวน 1 ฉบับ

ด้วยทาง Global Center of Excellence (GCOE) Program มหาวิทยาลัยโตเกียว ประเทศญี่ปุ่นร่วมกับ สถาบันเทคโนโลยีแห่งเอเชีย จัดโครงการสัมมนาวิชาการเรื่อง "Establishing the discipline of Human Security Engineering and Broadening a Network for Human Security in Asian Megacities" เพื่อสัมมนาทางวิชาการในหัวข้อ Human Security Engineering และเพื่อสร้างเครือข่าย Human Security Engineering ในระหว่างประเทศต่างๆ ทั่วทวีปเอเชีย โดยหัวข้อการสัมมนาคั้งนี้ประกอบไปด้วย

1. Urban Governance
2. Urban Infrastructure Asset Management
3. Environmental Accounting of Infrastructure Project
4. Urban Energy Security Engineering
5. Urban Food Security Engineering
6. Urban Transport and Logistics
7. Urban Disaster Prevention

ในการนี้ทางสถาบันเทคโนโลยีแห่งเอเชียและมหาวิทยาลัยโตเกียว จึงขอเรียนเชิญท่านและบุคลากรในสังกัดของท่านจำนวน 2-3 ท่าน เข้าร่วมการสัมมนาวิชาการดังกล่าวในวันที่ 19-20 พฤศจิกายน 2552 ณ โรงแรมเจ้าพระยาปาร์ก กรุงเทพมหานคร โดยไม่เสียค่าใช้จ่ายในการเข้าร่วมงานสัมมนาคั้งนี้

จึงเรียนมาเพื่อโปรดทราบและประชาสัมพันธ์แก่บุคลากรในสังกัดหน่วยงานของท่าน เพื่อเข้าร่วมงานสัมมนาวิชาการดังกล่าว จักเป็นพระคุณยิ่ง

ขอแสดงความนับถือ

รศ.ดร.นพดล เพ็ชรเวช

หัวหน้าภาควิชาวิศวกรรมธรณีเทคนิคและสิ่งแวดล้อม
สำนักวิศวกรรมและเทคโนโลยี สถาบันเทคโนโลยีแห่งเอเชีย

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