

**KYOTO UNIVERSITY – UTC
JOINT SUMMER TRAINING COURSE OF**

**ROAD INFRASTRUCTURE
ASSET MANAGEMENT**

Date: September 22 –24, 2011

Venue: Hanoi Campus, UTC, Vietnam

Organized by:

- + Graduate School of Management, Kyoto University, Japan
- + University of Transport and Communications, Vietnam

In collaboration with:

- + Center for Research in Business Administration, Graduate School of Management, Kyoto University
- + Kyoto University Global COE program “Global Center for Education and Research on Human Security Engineering for Asian Megacities”

ABOUT THE COURSE

It is needless to say that the maintenance/repair/renewal of infrastructures plays an inevitable task on stabilization of national life, not only in developed countries but also in developing countries. However, the limitation on budget allocated for the maintenance/repair/renewal of infrastructures requires

socio-economic concept in addition to engineering knowledge. In order to cope with difficulties mentioned above, the introduction of infrastructure asset management concept, which deals with the issue of optimizing the maintenance/repair/renewal of infrastructures comprehensively, has been highlighted even in developing countries. In addition, it is important to fill the gap between the concept and the implementation of road asset management.

From such a viewpoint, this course is aimed at providing the fundamental concept and/or knowledge associated with infrastructure asset management and the instruction of asset management software called “Kyoto Model”. Kyoto Model is compatible with ISO and applicable for JICA’s pilot project which started from 2011. This summer course also is the extension of the previous ones held in Hanoi in 2005, 2006, 2007, 2009, 2010 and in Ho Chi Minh in 2008.

TARGETED PARTICIPANTS

This course welcomes to researchers and engineers who wish to develop an understanding of Infrastructure Asset Management. **The maximum number of participants in this course is 30.** The participants who have the knowledge of some mathematic theory such as probabilistic, which is inevitable to evaluate life cycle cost, LCC, are expected. However, it is possible for some other people especially students to participate wholly or partly in the course as audiences.

VENUE

The summer training course is held at Hanoi Campus of University of Transport and Communications, Hanoi, Vietnam

CONTENTS OF THE COURSE

Contents of the course are summarized as follows:

- Outline of Asset Management
- Structure, Authority, and Responsibilities
- Risk Management
- Monitoring Management
- Life Cycle Analysis
- Performance Assessment of road infrastructures, concret structures, slope and embankment
- Case studies

BENEFITS OF THE COURSE

- Understanding concepts and basic theory of Infrastructure Asset Management.
- Obtaining the fundamental knowledge to design and analyze pavements using Life Cycle Cost considering cost and benefit as decision-making index.
- Understanding how to apply the knowledge in practice.
- Understanding how to use asset management software “**Kyoto Model**”
- Qualified participants will be conferred the certificates.

LANGUAGE

The official language of the course is English.

CONFERENCE GOVERNERS

Advisory Board

- Prof. Tran Dac Su (The Rector of the UTC)
- Prof. Kiyoshi Kobayashi (Kyoto University)
- Prof. Hiroyasu Ohtsu (Kyoto University)

Organizing Board

Chairpersons:

- Prof. Hirotaka Kawano (Kyoto University)
- Prof. Thai Ha Phi (UTC)

Organizing members:

- Prof. Katsunori Sawai (Kyoto University)
- Dr. Keizo Kamiya (NEXCO corp.)
- Dr. Yasuto Sakai (Hanshin Expressway Corp.)
- M.Sc. Nguyen Dinh Thao (UTC)
- Dr. Kiyoyuki Kaito (Osaka University)

LECTURERS OF THE COURSE

From Japan

- Prof. Kiyoshi Kobayashi - Kyoto University
- Prof. Hiroyasu Ohtsu - Kyoto University
- Prof. Hirotaka Kawano - Kyoto University
- Prof. Katsunori Sawai - Kyoto University
- Assoc. Prof. Tomoki Shiotani - Kyoto University
- Assoc. Prof. Kazuhide Sawada - Gifu University
- Assoc. Prof. Kiyoyuki Kaito - Osaka University
- Dr. Kazuya Aoki - PASCO Corp.
- Dr. Keizo Kamiya - Nippon Expressway Research Institute
- Dr. Keiichi Aoki - Nippon Expressway Research Institute
- Dr. Yasuhito Sakai - Hanshin Expressway Ltd
- Dr. Lê Thanh Nam - Swiss Federal Institute of
Technology (ETH)
- Mr. Tsuneo Kato -Katahira & Engineers International

From Vietnam

- Prof. Nguyễn Viết Trung - UTC
- M.Sc. Nguyễn Đình Thọ- UTC



GENERAL INFORMATION

Time and Place

The program will be held at the Hanoi Campus, University of Transport and Communications, Hanoi on September 22-24, 2011.

Registration

Application should be made by completing the registration form. Reservation can be made by e-mail to the local secretariat. Confirmation of reservation will be made upon receipt of the completed application forms. For further information, please visit the following website. You can download the registration form.
<http://psa2.kuciv.kyoto-u.ac.jp/kuutc/isamd2011/summerschool.htm>

Local Secretariat Contract Details

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General Secretariat Contract Details

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TIME TABLE AND CONTENTS

DAY	MORNING			AFTERNOON		
	No.	Time	Lecture Topic and Speaker	No.	Time	Lecture Topic and Speaker
Day 1 (22/9/2011)	1	9:00-9:50	The Fundamentals of Asset Management (Prof. Katsunori Sawai)	4	14:00-14:50	Life Cycle Cost Analyzing (M.Sc. Nguyen Dinh Thao)
	2	9:55-10:45	Structure, Authority and Responsibilities (Prof. Katsunori Sawai)	5	14:55-15:45	Road Performance Assessment (1) (Associate Prof. Kiyoyuki Kaito)
		10:45-11:05	Tea Break		15:45- 16:05	Tea break
	3	11:05-11:55	Risk Management for Road Infrastructures (Prof. Kiyoshi Kobayashi)	6	16:05-16:55	Road Performance Assessment (2) – Kyoto Model (Dr. Kazuya Aoki)
Day 2 (23/9/2011)	7	9:00-9:50	Monitoring Management (Associate Prof. Tomoki Shiotani)	10	14:00- 14:50	Risk Management –Case Study of Bridges in Vietnam (Prof. Nguyen Viet Trung)
	8	9:55-10:45	Management of Change – Case study from Hanshin Expressway Ltd (Dr. Yasuhito Sakai)	11	14:55-15:45	Bridge Inspection Activities – Case study from Nippon Expressway Research Institute Company Limited (Dr. Keiichi Aoki)
		10:45-11:05	Tea Break		15:15- 15:35	Tea Break
	9	11:05-11:55	Road Performance Assessment (3) – Case Study of Road Infrastructures in Vietnam (Dr. Nam Le Thanh)	12	16:05-16:55	Life Cycle Activities – Case study from Nippon Expressway Research Institute Company Limited (Dr. Keizo Kamiya)



Kyoto University–University of Transport and Communications
 Joint Summer Training Course of Road Infrastructure Asset Management
 Hanoi, Vietnam, September 22-24, 2011



DAY	MORNING			AFTERNOON			
	No.	Time	Lecture Topic and Speaker	No.	Time	Lecture Topic and Speaker	
Day 3 (24/9/2011)	13	9:00-9:50	Asset Management Activities – Case study from Gifu University (Associate Prof. Kazuhide Sawada)	16	13:30-13:50	Overview of JICA’s project on Road Management and Maintenance (TBA, JICA Vietnamese office)	
	14	9:55-10:45	Performance Assessment (4) – Case Study for Concrete Structures (Prof. Hirotaka Kawano)	17	13:50-14:10	Activities of Infrastructure Asset Management in Vietnam (Mr. Tsuneo Kato, Katahira & Engineers International)	
		10:45-11:05	Tea Break	19	14:10-14:30	Instruction of Sample Pavement Management System Software (Dr. Kazuya Aoki and M.Sc. Nguyen Dinh Thao)	
	15	11:05-11:55	Performance Assessment (5) – Case Study for Slope and Embankment (Prof. Hiroyasu Ohtsu)	20	14:30-15:50	Trial Running of Sample Pavement Management System (Assoc. Prof. Kiyoyuki Kaito and Dr. Kazuya Aoki) (in the PC pool)	
					21	16:10-17:00	Discussions
						15:50-16:10	Tea Break
					22	17:05-17:30	Closing speeches - Prof. Kiyoshi Kobayashi - TBA: Vietnamese side