



KYOTO UNIVERSITY – UTC
JOINT SUMMER TRAINING COURSE OF
ROAD INFRASTRUCTURE
ASSET MANAGEMENT

Date: September 24 –26, 2010

Venue: Hanoi Campus, UTC, Vietnam

Organized by:

- Kyoto University
- University of Transport and Communications

In collaboration with:

- Center for Research in Administration, 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. So far, the typical example is the implementation of HDM-4 (Highway Design and Management) on pavement management. However, road facilities consist of bridges, embankment/slopes and tunnels, in addition to pavement. Therefore, the development of asset management system to other road structures as well as pavement will be required in a near future.

From such a viewpoint, this course is aimed at providing fundamental concept and/or knowledge associated with infrastructure asset management and results of application, particularly focusing on road facilities consisting of pavements, embankment/slopes and tunnels. Risk management is also one key topic of the course.

Moreover, this course also is the extension of the previous ones held in Hanoi in 2005, 2006, 2007, 2009 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. However, **the maximum number of participants in this course is 30**. Therefore, 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
<http://www.uct.edu.vn/>

LANGUAGE

The official language of the course is English.

CONTENTS OF THE COURSE

Contents of the course are summarized as follows:

- ✧ Outline of Asset Management
- ✧ Basic Concept of Life Cycle Cost, Life Cycle Cost Analysis

- ✧ Monitoring System
- ✧ Application - Pavement, Slope/Embankment, Bridge, and Tunnel.
- ✧ Risk Management

BENEFITS OF THE COURSE

- ✧ Understanding concepts and basic theory of Infrastructure Asset Management.
- ✧ Obtaining the fundamental knowledge to design and analyze road facilities consisting of pavements, slopes/embankments, bridges and tunnels using LCC considering cost and benefit as decision-making index.
- ✧ Understanding how to manage risks in general as well as in construction and operation periods of infrastructure facilities.
- ✧ Understanding how to apply the knowledge in practice.
- ✧ Qualified participants will be conferred the certificates.

CONFERENCE GOVERNERS

Advisory Board

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



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Organizing Board

- ✧ Dr. Kiyoyuki Kaito (Osaka University)
- ✧ Dr. Thai Ha Phi (UTC)
- ✧ M.Sc. Nguyen Dinh Thao (UTC)
- ✧ Dr. Mamoru Yoshida (Kyoto University)
- ✧ Dr. Le Thanh Nam (Osaka University)

Local Secretariat Contract Details

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GENERAL INFORMATION

Time and Place

The program will be held at the Hanoi Campus, University of Transport and Communications, Hanoi on September 24-26, 2010.

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/isamd2009/summerschool.htm>

General Secretariat Contract Details

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TIME TABLE AND CONTENTS

	Morning	Afternoon
Day 1 (24/9/2010)	9:00-9:50: Introduction (Assoc. Prof. Kiyoyuki Kaito) 9:55-10:45: Friction Course for Pavement (Prof. Nguyen Xuan Dao) 10:45-11:05: Tea Break 11:05-11:55: Basic Hazard Model (Assist. Prof. Mamoru Yoshida) - 12:00-14:00: Lunch Time	14:00-14:50: Life Cycle Cost Analyzing (M.Sc. Nguyen Dinh Thao) 14:55-15:45: Pavement Management (1) (Dr. Kazuya Aoki) 15:50- 16:05: Tea break 16:05-16:55: Monitoring (Assoc.Prof. Tomoki Shiotani)
Day 2 (25/9/2010)	9:00-9:50: Risk Management (Prof. Nguyen Viet Trung) 9:55-10:45: Pavement Management (2) (Dr. Le Thanh Nam) 10:45-11:05: Tea Break 11:05-11:55: System Application for Pavement Management (M.Sc. Han Daeseok) 12:00-14:00: Lunch Time	14:00-14:50: Expressway Management (1) (Dr. Keizo Kamiya) 14:55- 15:45: Expressway Management (2) (Dr. Yasuhito Sakai) 15:45- 16:05: Tea Break 16:05-16 :55: Slope and Embankment (Prof. Hiroyasu Ohtsu)



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<p>Day 3 (26/9/2010)</p>	<p>9:00-9:50: Asset Management Implementation (Prof. Kiyoshi Kobayashi)</p> <p>9:55-10:45: E-book on Asset Management Implementation (Dr. Le Thanh Nam)</p> <p>10:45-11:05: Tea Break</p> <p>11:05-11:55: Concrete Management (Prof. Hirotaka Kawano)</p> <p>12:00-14:00: Lunch Time</p>	<p>14:00-14:50: Exercise</p> <p>14:55 -15:45: Tea break</p> <p>15:50-16:40: Closing speeches</p> <ul style="list-style-type: none">- Prof. K. Kobayashi- Prof. Tran Dac Su
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