

Pavement Preservation: Applied Asset Management

This two-day course is intended to provide transportation officials and practitioners with a comprehensive understanding of Pavement Preservation. It identifies the efficiencies gained by developing and selecting pavement strategies that reduce long-term operating costs, improve safety, pavement condition and user satisfaction. The course will provide personnel with an understanding of pavement condition indices, terminology, and applied asset management principles appropriate for both network and project application.

Target Audience

This course is suitable for the following groups:

- Policy level administrators and managers, planners, economists, and persons interested in focusing on highways or streets at the network level.
- Engineers, technicians, and specialists with a technical interest in learning details about suitable preservation techniques and their application at the project level

Benefits of Attending the Course

Policy level administrators and highway/street managers will learn cost-effective strategies for planning and managing highway and street networks. The information gained will be useful in budget planning and allocating resources to meet future demands.

Engineers and other technical specialists will gain a greater understanding of pavement distresses and where and when to use different preservation techniques to achieve success and gain the maximum benefit for the road user and the agency.

Class Facilitators

Mr. Larry Galehouse, Director of the National Center for Pavement Preservation and Keith Herbold, retired Federal Highway Administration will facilitate the class. Mr. Galehouse is Chairman of the TRB Committee on Pavement Maintenance (AHD20) and Co-Chair on the TRB Task Force on Roadway Pavement Preservation (AF020). He previously worked for the Michigan DOT where he developed and managed their Capital Preventive Maintenance Program.

Course Content

Day 1

Preservation Nomenclature – Discussion of preservation and its components, what preservation means at the network level, investment and management benefits, reasons for undertaking preservation, differences between condition and performance, extended pavement life, distress indices, measures of pavement life, windows of opportunity, and cost effectiveness.

Asset Management in Michigan – Applying the right fix at the right time. As defined in Michigan, asset management is an ongoing process of maintaining, upgrading and operating physical assets cost-effectively, based on a continuous physical inventory and condition assessment. Rick Lilly will provide an overview of the Asset Management Council's goal and objectives.

Data Inventories – Information needed to successfully apply asset management principles to highway networks, introduction to the various types of highway data, why they are important, and how they can be used to effectively manage highway networks.

Distress Identification – Project level descriptions of pavement structural and functional problems that can affect asphalt and concrete highways. The material describes the problems, their causes, and the steps that would be needed to establish a state-of-the-practice Pavement Management System (PMS).

Day 2

Distress Analysis – Ways to measure distress, an introduction to various indices, including Remaining Service Life (RSL), and their applicability in various pavement strategies.

Network and Project Level Management – Differences between the two management levels, introduction to prioritization and optimization, making tradeoffs, development and application of strategies to be applied at the network level, causes of distress, treatment timing, preservation of asphalt and concrete pavements, and a discussion of benefits and costs.

Pavement Preservation Strategy – A strategic view of the highway system, proactive policies, how to implement a pavement preservation program, the long term perspective with its issues and barriers, and a general discussion of various treatment types.

Group Exercises

Network Level Preservation Strategy – Development of a “balanced”, sustainable condition level for a given time period. Sufficient data will be provided to define network pavement costs, condition levels, and service life categories.

Project Treatment and Threshold – Selection of a treatment, including threshold type(s) and limits for a given pavement condition that complements the strategy developed in the network exercise. Information such as cost, “extended life” benefit, and past performance for each treatment will be provided.

Where and when will the class be held

The class will be held at the Springhill Suites in Lansing Michigan on November 15 and 16, 2006 from 8 a.m. to 5 p.m. each day. Arrangements for overnight lodging are the responsibility of the class participants.

Springhill Suites
111 S. Marketplace Blvd.
Lansing, MI 48917
517-627-0002

Class Materials

A resource notebook will be provided for in-class use and as a take-home reference for the class. It is recommended you bring a hand-held calculator to this class.

Class Sessions

Classes will have appropriate coffee and lunch breaks. A continental breakfast will be provided both days. There are many hotels and restaurants nearby. Certificates suitable for framing will be presented to those who complete the class. Casual dress is suggested to promote a relaxed classroom environment.

What are the Class Registration Procedures?

To register for the class, please complete the registration form on the reverse side and return it to: Patte Hahn, 2857 Jolly Road, Okemos MI 48864 or fax it to 517-432-8223.

Please contact Patte at 517-432-8220 if you have any questions. Cancellations not made ten calendar days in advance of the class date are subject to a \$100 cancellation fee. Substitutions are welcome at any time. “No Shows” will be charged the full class fee. Class confirmation letters are mailed out from 7-14 days ahead of the class.

REGISTRATION FORM

National Center for Pavement Preservation

Attn: Patte Hahn
2857 Jolly Road
Okemos, MI 48864
(517)432-8220
FAX (517) 432-8223

NAME: _____
(for Name Tag)

NAME: _____
(for Certificate)

TITLE: _____

AFFILIATION: _____

ADDRESS: _____

CITY: _____ STATE: _____ ZIP: _____

WORK PHONE (_____) _____

EMAIL: _____

Payment Information

The Asset Management Council will handle the course fee. See below for cancellation fee.

(Any cancellation received after November 5, 2006 will be billed a \$100.00 cancellation fee).

National Center for Pavement Preservation
Michigan State University
2857 Jolly Road
Okemos, MI 48864

Pavement Preservation: Applied Asset Management Training Course

November 15 & 16, 2006

At
Springhill Suites - Lansing
Lansing, Michigan

Sponsored By:



MICHIGAN STATE
UNIVERSITY

