

Hot Mix Asphalt Pavement Maintenance & Rehabilitation

COURSE DESCRIPTION:

An in-depth look at hot mix asphalt (HMA) pavement rehabilitation including identification of pavement distress, non-destructive testing methods, repair strategies and overlay design. If you are involved in pavement maintenance or rehabilitation in any way, including design consultants, contractors, public officials, State, County, and Federal agencies, this course can provide you with the basic HMA pavement maintenance & rehabilitation knowledge you can use. All attendees receive a free copy of the **HAPI Asphalt Pavement Guide** (preview it at: www.hawaiiasphalt.com) CD-ROM and course notes.

This is the second of a four-part seminar series about hot mix asphalt. The first seminar, in April, covered HMA basics; other seminars will provide detailed coverage of HMA pavement design and HMA pavement construction.

TOPICS:

1. Pavement as an asset
2. Pavement life-cycle and the economics of pavement deterioration and rehabilitation
3. Pavement evaluation including typical distresses seen in Hawaii and systems for quantifying them
4. Typical maintenance and rehabilitation practices
5. Pavement management
 - a. Examples of pavement management from other States and agencies
 - b. Lowest life-cycle vs. "worst first" strategies
 - c. Rehabilitation design options
 - d. Non-destructive test options
 - e. Example programs of pavement management
 - f. Evolving world trends in pavement management

LEARNING OBJECTIVES:

Upon completion of the seminar, the attendee will be able to:

- Explain the pavement life-cycle to include economic reasons for performing pavement rehabilitation earlier rather than later
- Identify pavement distress types, their potential causes, and why they are harmful
- Identify appropriate rehabilitation strategies for each type of pavement distress
- Determine appropriate testing to be used in determining rehabilitation strategy
- Discuss typical rehabilitation strategies used in Hawaii
- Explain proper pothole repair techniques
- Explain pavement management and its importance

INSTRUCTORS:

Steve Muench is a doctoral candidate in the University of Washington's department of Civil and Environmental Engineering. Interests include pavement design, construction and maintenance; construction materials; quality control and quality assurance; and transportation design as well as education and teaching. Steve is the developer of the *HAPI Asphalt Pavement Guide*. He is a licensed professional engineer in Washington State and received an MSCE from the University of Washington in 1998, and a BSCE from the University of Washington in 1990. Steve is a graduate of Kailua Elementary, Kailua Intermediate and Kalaheo High School (class of 1986). His parents still live in Kailua and he still calls Hawai'i "home".

Joe Mahoney, is a professor of civil engineering in the University of Washington's department of Civil and Environmental Engineering. He is currently the area leader for the transportation and construction program. His primary focus areas include transportation and construction while his specific focus is on pavements including highway and airfield, pavement materials, and pavement management systems.

Registration Procedure

Please contact Holly Suyama at 956-8719, 956-8851 (FAX) or suyama@eng.hawaii.edu by Friday, July 2, 2004.

Cancellations

Please contact us if you must cancel your registration or if someone will be substituting for you.

Parking

Parking for the East West Center is \$4/day. If you would like to receive a parking pass, please contact us by July 2, 2004. Make checks payable to **Research Corporation of the University of Hawaii (RCUH)** and mail to:

Hawaii LTAP
University of Hawaii
Dept of Civil and Environmental Engineering
2540 Dole St, Holmes 383
Honolulu, HI 96822
Attn: Holly Suyama

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July 13, 2004

East-West Center
Jefferson Hall
Asia Room
8:30 a.m. – 5:00 p.m.

July 12, 2004 – Lihue, Kauai

Workshop sponsored by the
**Hawaii Asphalt Paving Industry
and
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*Hawaii State Department of Transportation
University of Hawaii's Department of Civil and Environmental
Engineering and the Federal Highway Administration*

Hawaii Local Technical Assistance Program

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