

# Hot Mix Asphalt Pavement Rehabilitation

## SEMINAR 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 rehabilitation in any way, including design consultants, contractors, public officials, State, County, and Federal agencies, this course can provide you with HMA pavement rehabilitation knowledge you can use. All attendees receive a free copy of the **HAPI Asphalt Pavement Guide** (preview it at [www.hawaiiasphalt.com](http://www.hawaiiasphalt.com)) CD-ROM and course notes.

## TOPICS:

1. The general worth and value of pavements and the amount of money spent on them.
2. Common metrics of pavement evaluation to include International Roughness Index (IRI), surface distress, rutting and deflection measurement and what those measurements mean.
3. Common types of maintenance and rehabilitation treatments and when they might be appropriate.
4. Rehabilitation design methods to include component analysis and deflection analysis.
5. Perpetual pavements, top-down cracking and top layer de-bonding issues.

The purpose of this seminar is not to tell everyone how pavement rehabilitation must be done, but rather to take a look at the array of tools (both testing and design methods) available to assist you in making informed rehabilitation decisions.

## 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
- Calculate pavement overlay thicknesses using component and deflection analysis techniques
- Discuss the costs and benefits of perpetual pavements and, in general, long-lasting HMA pavements

## INSTRUCTOR:

**Steve Muench** is an assistant professor in the University of Washington's department of Civil and Environmental Engineering. Steve is the developer of the HAPI *Asphalt Pavement Guide*. He is a licensed professional engineer in Washington State and received his PhD from the University of Washington in 2004. 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".



### Registration Procedure

Please contact Gail Ikeda at 956-8367, 956-8851 (FAX) or [gail@eng.hawaii.edu](mailto:gail@eng.hawaii.edu) by Tuesday, September 26, 2006.

### 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 September 26, 2006. 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: Gail Ikeda

\*Lunch will be provided courtesy of HAPI

# Hot Mix Asphalt Pavement Rehabilitation

**October 3, 2006**

East-West Center  
Jefferson Hall, Pacific Room  
1777 East-West Road  
8:30 a.m. – 4:30 p.m.

Workshop sponsored by the  
**Hawaii Asphalt Paving Industry  
and the  
Hawaii Local Technical Assistance  
Program**

in cooperation with the  
*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

University of Hawaii at Manoa  
Department of Civil and Environmental Engineering  
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