

# Hot Mix Asphalt Pavement Construction

## COURSE DESCRIPTION:

An in-depth look at hot mix asphalt (HMA) pavement construction including equipment, procedures, quality assurance, and relevant construction issues for designers, inspectors, owners and contractors. If you are involved in pavement design, inspection, testing or construction (this includes design consultants, contractors, public officials, State, County, and Federal agencies), this course can provide you with useful HMA pavement construction information. 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. Please [note] that each participant should have a basic background in HMA. This background is easily obtained by attendance at either of the previous seminars or reading of the HAPI Asphalt Pavement Guide ([www.hawaiiasphalt.com](http://www.hawaiiasphalt.com)).

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

## TOPICS:

1. Plant operations and mix transport
2. Surface preparation for paving
3. Mix placement and placement considerations
4. HMA compaction
5. Specifications and quality assurance
6. HMA construction issues including:
  - a. Design issues related to construction
  - b. Density
  - c. Segregation
  - d. Temperature differentials
  - e. Longitudinal joint construction
  - f. Smoothness
7. Construction expert panel discussion (an open discussion about construction and construction issues)

## LEARNING OBJECTIVES:

Upon completion of the seminar, each participant will be able to:

- Describe the basic construction process from plant production through compaction and opening to traffic
- Describe surface preparation techniques, their importance and when they are needed
- Describe key placement considerations and their importance
- Explain the use of a material transfer vehicle and its significance
- Identify typical methods of quality assurance and quality control, their use and their accuracy
- Discuss key HMA construction issues including their importance, causes, cures and their relationship to final pavement quality
- Have his/her questions about HMA construction answered by a panel of experts in construction

## INSTRUCTORS :

**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 a PhD from the University of Washington. 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 Hawaii "home".

**Jeff Richmond** is President of Roadtec, Inc., manufacturer of asphalt pavers, screeds, cold planers, and the Roadtec Shuttlebuggy material transfer vehicle. Do not miss this opportunity to hear from Jeff.

### Registration Procedure

Please contact Gail Ikeda at 956-8367, 956-8851 (FAX) or [gail@eng.hawaii.edu](mailto:gail@eng.hawaii.edu) by **Friday, October 22, 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 parking pass please contact us by Friday, October 22, 2004. Make checks payable to **Research Corporation of the University of Hawaii (RCUH)** and mail to:

Hawaii LTAP  
University of Hawaii  
Dept of Civil & Environmental Engineering  
2540 Dole St., Holmes 383  
Honolulu, HI 96822  
Attn: Gail Ikeda

# Hot Mix Asphalt Pavement Construction

**November 10, 2004**

East West Center, Jefferson Hall,  
Keoni Auditorium  
1777 East West Road  
8:30 a.m. – 5:00 p.m.

November 9, 2004 – Kona, Hawaii

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 Engineering*  
*and the Federal Highway Administration*

### Hawaii Local Technical Assistance Program

University of Hawaii at Manoa  
Department of Civil and Environmental Engineering  
2540 Dole Street, Holmes Hall #383  
Honolulu, Hawaii 96822

