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) 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).

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.
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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

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