

Hot Mix Asphalt Pavement Rehabilitation Design for the City & County of Honolulu

COURSE DESCRIPTION:

A half-day seminar on identifying and investigating pavement distress and specifying maintenance and rehabilitation efforts for the City and County of Honolulu. This seminar, especially for those who work with the City and County on pavement rehabilitation projects, will use case studies to cover how to properly identify, investigate, design and specify pavement rehabilitation for the City and County. This seminar is meant to be a follow-on to the general **Hot Mix Asphalt Pavement Maintenance & Rehabilitation** seminar from LTAP and the Hawaii Asphalt Paving Industry (HAPI). It is highly recommended that you attend both seminars to receive the maximum benefit. All attendees receive a free copy of the **HAPI Asphalt Pavement Guide (preview it at: www.hawaiiasphalt.com)** CD-ROM and course notes.

TOPICS:

1. Pavement distress overview
2. Available information for diagnosing rehabilitation needs
 - a. Visual survey techniques
 - b. Testing including soils tests, pavement cores, dynamic cone penetrometer, benkleman beam and falling weight deflectometer
3. Appropriate areas to reconstruct vs. rehabilitate
4. Recommended structural designs from the City and County of Honolulu
5. Case studies

LEARNING OBJECTIVES:

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

- Identify pavement distress types, their potential causes, and why they are harmful
- Identify appropriate City and County rehabilitation strategies for each type of pavement distress
- Identify appropriate testing to be used in determining rehabilitation strategy
- Discuss the pros and cons of each testing method and when each would be appropriate
- Delineate proper extents of reconstruction given a complex rehabilitation project
- Explain recommended City and County of Honolulu rehabilitation structural designs

INSTRUCTORS:

Steve Muench received his Ph.D. from the University of Washington's department of Civil and Environmental Engineering in June 2004. 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

Hot Mix Asphalt Pavement Rehabilitation Design

July 14, 2004

East-West Center
Jefferson Hall
Asia Room
8:00 a.m. – 12:00 p.m.

Workshop sponsored by the
**Hawaii Asphalt Paving Industry
and
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
2540 Dole Street, Holmes Hall #383
Honolulu, Hawaii 96822

