

Design of Concrete Pavements for Streets and Roads

COURSE DESCRIPTION:

Design and construction standards for streets and roadways should provide pavements with both long service life and low maintenance. As a guide in achieving this goal, the American Concrete Pavement Association (ACPA) puts out publications which provide designs that meet traffic requirements and will result in the lowest annual cost when considering both initial construction cost and pavement maintenance.

Key factors in the design process for concrete streets and roads:

1. Streets classification and traffic
2. Geometric design
3. Subgrades/subbases
4. Concrete quality
5. Thickness design
6. Jointing
7. Construction specifications

LEARNING OBJECTIVES:

ACPA provides designs that meet traffic requirements and will result in the lowest annual cost when considering both initial construction cost and pavement maintenance. Design considerations include utilities, integral curbs, street widths, concrete quality and reliability.

TARGET AUDIENCE:

Geotechnical and civil / structural engineers, inspectors, contractors and decision makers involved in the pavement process.

INSTRUCTOR:

Dr. Michael E. Ayers

Dr. Michael E. Ayers is the Director of Highways and Concrete Pavement Technology for the American Concrete Pavement Association in Skokie, Illinois. He is responsible for technical issues relating to highway pavements and technology transfer activities for the ACPA. Dr. Ayers is the Principal Instructor for the FHWA/NHI titled, "Construction of Portland Cement Concrete Pavements," as well as the ACPA Professors Seminar, and Concrete Pavements 101 (Design, Construction, and Rehabilitation of Concrete Pavements). In addition, his responsibilities include oversight of research conducted through ACPA and its affiliates.

Prior to joining ACPA, Mike was the Director of Technology Transfer at ERES Consultants in Champaign, Illinois. In that capacity, he was responsible for development and delivery of training courses for the Federal Highway Administration, state agencies, and private industry. He was very active in research and served as Principal Investigator for numerous federal and state funded research projects. Before joining ERES in 1996, Dr. Ayers was an Associate Professor of Civil Engineering for Oklahoma State University. He received his B.S., M.S. and Ph.D. from the University of Illinois at Urbana/Champaign.

Registration Procedure

- 1) Please contact Gail Ikeda at 956-8367, 956-8851 (FAX) or gail@eng.hawaii.edu by **Friday, August 25, 2006**.
- 2) Attendance is limited to 50 participants, and preference is given to local government employees.
- 3) Private company registration fee is \$45.

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

Cancellations

Please contact us if you must cancel your registration or if someone will be substituting for you. Refunds will be made if notice of cancellation is received at least 3 working days prior to the workshop date.

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**Thursday
August 31, 2006**

Pearl Country Club
98-535 Kaonohi Street

8:30 a.m. – 4:30 p.m.

Workshop sponsored by the
**Cement & Concrete Products Industry
of Hawaii**
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

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