

March 28

Mario Medina

Review of Changes Presented in the 2001 AASHTO Standard Specifications For Highway Signs, Luminaries, and Traffic Signals

In recent years there have been a number of failures of traffic light poles and other signage, indicating that the existing design rules and fabrications methods are not adequate in addressing *fatigue and fracture* issues resulting from the connection of cross arms to the vertical mast arms on traffic light poles. This talk presents a summary of these issues, which were updated and compiled to produce the 2001 AASHTO Standard.

April 4

JoAnn Browning

Changes in the ACI 318-05 Building Code

A new edition of the ACI 318 Building Code for concrete structures will be released in 2005. This seminar will focus on the changes in the new code, including changes in spiral reinforcement provisions for confinement, shear reinforcement requirements for slab-column connections in regions of high seismic risk, significant changes in notation, and more.

April 11

David Graham

Effect of Antibiotics on Environment

Antibiotics have been used excessively in both medicine and agriculture over the last thirty years and many key antibiotics have systematically lost their effectiveness against pathogens due to overexposure. This presentation will discuss the fate and effects of various antibiotics in water and wastewater systems, and present new research on the monitoring and possible reversal on antibiotic resistance development in environmental bacteria.

April 18

Carl Kurt

Managing Field Personnel with GPS and Technology

Many engineers manage or are responsible for traveling field personnel. This session presents options for automating the process with GPS and field technology.

April 25

Bruce McEnroe

Hydraulic Analysis of Pumping Stations

This class will cover hydraulic analysis of pumping systems with (1) a single constant-speed pump, (2) variable demand and lift requirements, (3) multiple pumps in various arrangements, and (4) variable-speed pumps.

May 2

Stan Rolfe

AASHTO Fracture Control Plan for Steel Bridges

The AASHTO Fracture Control Plan for Steel Bridges was created in the 70's and has worked quite well until the brittle fracture of the Hoan Bridge in 2000. Accordingly, FHWA is studying the need to modify that plan. Past, present, and future aspects of the Plan will be described.

Each participant of each session will have their ticket stamped confirming attendance, the topic discussed, and verifying the 2.0 PDH credit.

Session tickets, which are transferable, are \$50 for each session of the 12 session series. There are a limited number of tickets. To obtain a ticket, contact Carol Jo Sloan, Department of Civil, Environmental & Architectural Engineering, 2150 Learned Hall, University of Kansas, Lawrence KS 66045. Telephone (785) 864-3766. Email: cjsloan@ku.edu

Please park in the Jewish Synagogue parking lot. Use the north lot, which is closest to the 9400 Building and then take the sidewalk to the front Burns & McDonnell entrance. ***This is the same parking lot we used last year. Parking in the Burns & McDonnell lot is strictly prohibited.***

