

The University of Kansas
Department of Civil, Environmental and Architectural Engineering

presents the

Professional Development Series

Spring 2014

The faculty of the KU Department of Civil, Environmental and Architectural Engineering will offer 12 two-hour presentations on topics of interest to practicing engineers. This series will be presented on Mondays 4-6 p.m., February 10 through April 28, at Burns & McDonnell World Headquarters, 9300 Ward Parkway in Kansas City. Participants will earn **2.0 hours of PDH credit** for each session attended.

February 10 JoAnn Browning Simplified Seismic Analysis for Buildings

For certain structures of regular mass and stiffness configuration, simplified methods for analyzing and proportioning concrete structures are extremely valuable tools. Simplified methods are included in code-based provisions as a popular alternative to detailed nonlinear analysis. With the continuing development of performance-based earthquake engineering, methods are needed to provide estimates of drift and deformation to compare with performance criteria. This seminar focuses on the development of several simplified methods to analyze and proportion reinforced concrete structures in regions of seismic activity.

February 17 Herb Tuttle Project Team Success

We will determine the inputs to ensure team and project success. We will identify team stumbling blocks to development. We will put together a plan to improve project team success.

February 24 Bob Parsons Soil Stabilization

Soil stabilization can greatly improve the strength and reduce the shrink/swell potential of soils beneath pavements and slabs. This presentation will cover the primary products used to stabilize soils, which product to use and the amount to specify, and how to successfully apply the product.

March 3 Dave Darwin Control of Cracking in Concrete

Cracks have been a problem for as long as concrete has been used as a construction material, but understanding the factors that lead to cracking allows structures to be designed and constructed with minimum cracking. The causes of settlement and plastic shrinkage cracking in plastic concrete and the role of drying shrinkage, thermal stresses, poor construction practices, and errors in detailing or design on cracking in hardened concrete are described. Steps to minimize cracking in buildings, bridges, and slabs-on-grade are covered along with approaches that will limit cracking in any structure.

March 10 Tom Mulinazzi Engineering Ethics: Why Bother?

You will be challenged more with ethical issues than technical issues during your professional career. How will you react to these ethical issues; how should you react to these issues? Ethical situations cover a very gray area and engineers usually think in a black and white world. Let's discuss how you would handle different ethical events.

March 17 Dan Tran Practical Engineering Risk Management

The construction industry is exposed more risk and uncertainty than other industries. Any possible combination of risk factors can significantly affect the success of a project's performance. This presentation will provide an overview of engineering risk management process and discuss how to apply this process to construction projects to better understand the impact of risk on project outcomes.

Parking Map

