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When: **September 22, 2005,** 5:30 PM Social time (includes snacks)
6:00 PM KGEK Meeting and Presentation

Where: **Kentucky Engineering Center, Frankfort, Kentucky**

Topics: **Louisville District Dam Safety Program and 2005 Flood Response Duty**

Speakers: **Troy O'Neal, P.E.¹, Geotechnical Engineer, Civil Engineering Branch, U.S. Army Corps of Engineers**

The Corps of Engineers has recently begun a risk-based approach to evaluate its dam inventory. In response, the Louisville District Dam Safety program consisting of 20 large earthen dams and 10 navigation locks and dams has prepared screening level assessments to evaluate the relative failure potentials and modes. Life risk and economic consequences are used to rank the relative risk of the inventory. A brief overview of the Louisville District Dam Safety program and a summary of the on-going risk-based assessment will be presented.

Additionally, the Louisville District has been called into action to fight significant floods events in Indiana, Kentucky, and Ohio in the last two years. These flood fight efforts required many geotechnical, structural, and hydraulic engineers simultaneously. The activated Emergency Operation Center for the district served as the regional focal point to coordinate these response activities including dam flow releases. During the flood, several of the district dams reached record pools while geotechnical engineers were out in the local communities providing technical assistance. This assistance included advising National Guard, public volunteers, and state prisoner efforts to build temporary dikes, sand bag levees, and provide large pumps. The geotechnical engineer was often called on to solve each unique problem using "what they got" in a real-time manner to prevent flooding of communities. In each case, the engineers interfaced with the media, local, state, and federal government representatives. This presentation will focus on the several cases and provide technical advice for the future flood fighter.

The events of Hurricane Katrina have impacted everyone. If time permits, a very brief summary of the Louisville District's response to the disaster with associated "on the ground" photos will be presented.

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KGEG Members:

Memberships expire in October. Please bring your \$10.00 annual dues to the meeting or mail to Patrick Kiser at the address listed above.

CEU Documentation: If you are licensed in a state with continuing education requirements, bring this announcement, which indicates the qualifications of the speaker, material covered, and date, to the meeting and have a KGEG officer validate your attendance and duration of the presentation.