“Accelerated Bridge Construction: The Replacement of Maryland Route 362 over Monie Creek”

The Maryland State Highway Administration identified the timber substructure on the existing bridge carrying Maryland Route 362 over Monie Creek in Somerset County as structurally deficient. The decision was made to replace the bridge. Typically, a bridge of this size would be replaced within a ten week period during the summer months. MDSHA wanted to find a way to reduce the anticipated road closure duration from ten weeks to five. MDSHA designed the bridge to include several first time accelerated construction features, which allowed the contractor to meet the revised road closure duration. The contractor was required to install the new support piles through the existing approach roadway using a flagging operation during the day. Then, the contractor closed MD 362 to traffic, and precast concrete abutment and wing wall caps were set in place over the pre-driven piles. The use of precast elements and requiring that piles be installed during a flagging operation allowed SHA’s contractor to complete the work within the time allotted.

Tuesday, April 6, 2010
JHU Homewood Campus
Computational Science and Engineering Building Room B17
12:00 – 12:50 pm

Joseph Navarra, PE
Team Leader - Maryland State Highway Administration

Joseph Navarra graduated from Rutgers University in 1997 with a bachelor’s degree in Civil Engineering. He started his professional career as a bridge engineer with T & M Associates located in New Jersey. In September 2000, he moved to Baltimore and began designing bridges for the Maryland State Highway Administration in the Office of Structures. In 2007, he was promoted to the position of team leader responsible for managing major bridge replacement and rehabilitation projects.

Seminar is FREE. For parking please see link for visitors at www.jhu.edu and select information on Homewood Campus. For more information contact civil@jhu.edu.
One Professional Development Hour (PDH) will be awarded to attendees.