

## WORKSHOP B

### Workshop B: Cured-In-Place Pipe, Design, Quality Control and Inspection

Tuesday, March 11, 2014

8:30am - 5:00pm

- 8:30am**      **Introductions and Workshop Overview**  
Gerry Muenchmeyer, Muenchmeyer Associates, LLC
- 8:45am**      **Design of Cured-in-place pipes**  
Ed Kampbell, Rehabilitation Resource Solutions, LLC
- a) Review of different pipe shapes where CIPP is applicable
  - b) Design loading of groundwater, soil and live loads on different types of pipe
  - c) Design approach current practice and discussion of new approach
  - d) Software programs that will be available for the engineering community
- 10:00am**      **Networking Break**
- 10:30am**      **Performance Based Specifications**  
Lynn Osborn, Insituform Technologies
- a) Existing project conditions, what is required to obtain a competitive bid
  - b) Performance Work Statement (PWS) and submittals . Why this is a must.
  - c) Quality Controls defined to what detail?
  - d) Enforcement of contract requirements
  - e) Warranty requirements - what is commonly specified
- 11:30am**      **Question and Answer**  
Forum Panel
- 12:00pm**      **Lunch**
- 1:30pm**      **Quality Control and Testing**  
Kaleel Rahaim, Interplastics Corp.
- a) Requirements to verify product quality
  - b) Frequency of testing
  - c) Measurable requirements should be measured
  - d) Testing payment and Chain of Custody
- 3:00pm**      **Networking break**
- 3:30pm**      **Construction Inspection**  
Gerry Muenchmeyer, Muenchmeyer Associates, LLC
- a) Inspector training what is required?
  - b) Product quality verification through quality assurance and testing
  - c) Inspector required submittal information
  - d) Key inspection components aimed at quality products
  - e) Documentation of quality assurance and testing
- 4:30pm**      **Question and Answer**  
Forum Panel
- 5:00pm**      **Adjourn**