

NEW ENGLAND FORUM ON TRENCHLESS TECHNOLOGY

BOSTON, MA

Wed, 11/10/09

AGENDA

Joint Session with Invited Industry Participants

- 8:30 Coffee and reception
- 9:00 Welcome and introductions
- 9:15 Technical presentations
- 9:15 - 9:45 **Advances in Resin Technologies for Pipe Rehabilitation ...** Jeremy West, *Prime Resins*
- 9:45- 10:15 **CIPP Design Parameters ...** Lynn Osborn, *Insituform Technologies, Inc*
- 10:15 - 10:45 **IPEX's TerraBrute CR ...** Andrew Potter, *IPEX Inc*
- 10:45 – 11:00 BREAK
- 11:00- 11:30 **The Growth of Lateral Pipe Bursting...** Ric Micelotta, *TT Technologies, Inc*
- 11:30 – 12:00 **The Tenbusch Insertion Method of Pipe Bursting ...** Brian Dorwart, *Brierley Associates LLC*
- 12:00 – 12:30 **Pilot Tube Construction ...** Dan Dobbels, *Jacobs Associates*
- 12:30 Lunch

Municipal Participants only Session

- 1:00 Discussion and information sharing
- 3:00 Adjourn

PRESENTATION SUMMARIES

Advances in Resin Technologies for Pipe Rehabilitation

By Jeremy West, Prime Resins

Chemical or Polyurethane grouts are used in a variety of applications for the infrastructure repair industry. Focusing mainly on water-stop and leak repair, these grouts offer solutions to the I & I nightmares of the municipal forum. As the advancement of technology and chemistry continues, the education of new methods and applications becomes necessary to provide greater success and results in curing failing infrastructure. This education will revolve around understanding the difference between hydrophobic and hydrophilic grouts, when each of these types of grouts are applicable, and how to get them into service in the most efficient and effective manner possible.

CIPP Design Parameters

By Lynn Osborn, *Insituform Technologies, Inc*

A discussion of CIPP design parameters including a review of the ASTM F 1216 CIPP design equations. The presentation will include key points to consider when reviewing CIPP design calculations.

IPEX's TerraBrute CR

By Andrew Potter, *IPEX Inc*

TerraBrute CR is an integral bell restrained joint PVC pipe. It is AWWA 900 pipe with slight modifications that allows the joints to be locked, and the pipe used for "pulled in place" applications like horizontal directional drilling (HDD) or pipe bursting. TerraBrute CR's patented non-metallic "ring-and-pin" gasketed joint design outperforms all other restrained PVC pipe joints on the market, providing more than twice the pull strength of other HDD systems - up to 120,000 lbs. for 300mm/12" pipe. With it's rounded bell shoulders, TerraBrute CR slides by roots, rocks and other debris that can protrude into the borehole. TerraBrute CR's locking system allows pipe to be assembled one length at a time, thus minimizing disturbance to the surrounding area and making Terrabrute CR the ideal choice for HDD projects located in tight areas.

The Growth of Lateral Pipe Bursting

By Ric Micelotta, *TT Technologies, Inc*

The rehabilitation and replacement of sewer service laterals has traditionally been a difficult, expensive and time-consuming job. They are usually located directly beneath someone's yard, a business entryway or a sidewalk; all of which makes open cutting the least attractive lateral rehab option from the resident's point of view. Moreover, most laterals continue on into some type of street or roadway where open cutting is even less popular among motorists and public safety officials.

The explosion in lateral pipe bursting has come about recently for several key reasons. Inherently the method is well suited for lateral replacement. It provides a trenchless option for lateral replacement that utilizes the existing line and allows for increase or upsize of the original host pipe diameter. That fact alone is extremely valuable on jobs where lines are being replaced because of capacity issues. Another reason for the rise in lateral bursting is what in many ways helped pipe bursting establish a foot hold in the sewer industry in North America in the first place— Inflow and Infiltration.

The Tenbusch Insertion Method of Pipe Bursting

By Brian Dorwart, *Brierley Associates LLC*

The TIM™ system is a unique pipe replacement (pipe bursting) method that jacks (pushes) new pipe in place of the existing deteriorated pipe. Unlike other trenchless methods, the TIM™ system utilizes the column strength of segmented jacking pipe for the newly installed line. The stringent structural requirements of the TIM™ System ensure a long lived, structurally superior, end product.

Pilot Tube Construction

By Dan Dobbels, *Jacobs Associates*

The presentation will provide description of the Pilot Tube Construction method/process: capabilities and Limits (advantages/disadvantages); soil type and groundwater; pipe materials and sizes, design and construction considerations; hybrid construction methods; and future of the method.