



College of Technology  
Bowling Green State University (BGSU)  
Bowling Green, Ohio 43403

## Cured in Place Pipe Good Practices Guidelines Course and Exhibits



North American Society for  
Trenchless Technology  
(NASTT)



Bowling Green State  
University (BGSU)

**Second Annual Tri-State Trenchless Technology Seminar  
North American Society for Trenchless Technology (NASTT) &  
Bowling Green State University (BGSU)**

## Cured in Place Pipe Good Practices Guidelines Course and Exhibits

**Room 228 in Bowen-Thompson Student Union  
Bowling Green State University (BGSU)  
Bowling Green, Ohio  
February 23-24, 2012**

# Second Annual Tri-State Trenchless Technology Seminar Cured in Place Pipe Good Practices Guidelines Course and Exhibits

## *You Need to Know CIPP*

The Cured in Place Pipe (CIPP) has become a main street pipeline rehabilitation technique. To be most effective in specifying, managing and inspecting pipeline rehabilitation projects, you need to know the ins and outs of CIPP. This course will increase the participants' knowledge with respect to CIPP liners for the renovation of waste water networks. The course covers the history, applications, materials, design, installation, construction, testing, and specifications.

## *Course Background*

Due to the increasing use of CIPP across North America, the North American Society for Trenchless Technology (NASTT) developed the *CIPP Good Practices Guidelines Course* that provides contractors, engineers and owners with an industry driven education prepared by experts in the field. The course objective is to provide the contractors, engineers and owners with a set of guidelines that will enable their personnel to have successful CIPP installations.

## *Who Should Attend*

- Engineering consultants
- Utility engineers and managers
- Government engineers and public works managers
- Contractors
- Others with responsibilities for implementing or managing construction projects using trenchless construction techniques.

## *Earn Valuable CEUs*

For every 10 hours of attendance and participation, you will earn one Continuing Education Unit (CEU). CEUs are maintained and issued through NASTT's partnership with Louisiana Tech University.

## *Room Accommodations*

A block of rooms has been reserved for the attendees in the Hampton Inn in Bowling Green, OH. The negotiated rate is \$75 per night. Please mention the group reservation code "tristate." To reserve your room, call 419-353-3464 before February 15, 2012.

## *Seminar Location*

Room 228 – the Multipurpose Room in Bowen-Thompson Student Union in Bowling Green State University

For directions to the Student Union, check: <http://www.bgsu.edu/offices/sa/union/page10314.html>.

## *Expert Course Instructors*

### **Ian Doherty, P.Eng.**

**Ian Doherty** started Trenchless Design Engineering in 1995 following 21 years practicing engineering in the pipeline field including several years with a sewer lining contractor. He is a member of NASTT and, in the past, served on the ASTM F17-67 trenchless technology sub-committee. He has presented technical papers at a number of NASTT No-Dig Conferences since 1995. He is a registered professional engineer in the Canadian provinces of Ontario, Manitoba and British Columbia and is the author of the application CIPP-DESIGN widely used for designing CIPP liner thickness.



**Kaleel Rahaim**

**Kaleel Rahaim** is a graduate Chemical Engineer from Mississippi State University. He has experience in many different aspects of Engineering such as project and process engineering and has been involved in the thermoset polymer industry for over 30 years. His current position is Business Manager, Pipeline Remediation Polymers for the Thermoset Resins Division of Interplastic Corporation. Kaleel served on the NASTT Board of Directors from 2006 to 2011 and is involved with many other trade organizations for the trenchless remediation industry.



### NASTT's CIPP Good Practices Course Agenda

<b>Thursday February 23, 2012</b>	
7:30 AM - 8:15 AM	Continental Breakfast & Check-in
8:15 AM - 8:30 AM	Opening Remarks
8:30 AM - 9:30 AM	<b>Part 1 - Introduction</b>
9:30 AM - 10:00 AM	Coffee Break
10:00 AM - 11:30 AM	<b>Part 2 - CIPP Description, History and Methods</b>
11:30 AM - 1:00 PM	Lunch
1:00 PM - 2:00 PM	<b>Part 3 - CIPP Application Range in Trenchless Technologies</b> Types of pipelines used in CIPP process, practical size, shape & length limitations, types of CIPP materials, basics of how CIPP interacts with other materials, typical problems that can be addressed using CIPP, practical advice on where, when and how to apply CIPP liners
2:00 PM - 3:00 PM	<b>Part 4 - CIPP Testing for Product and Installations</b> Product benchmark testing including long-term performance and installation testing for quality assurance
3:00 PM - 3:30 PM	Coffee Break
3:30 PM - 5:00 PM	<b>Part 5 - CIPP Design for Non-Pressure Pipelines</b> Existing pipeline problems, fully and partially deteriorated pipelines and details on ASTM F1216 X1 design method & examples
5:00 PM	Course Adjourned - Day 1 - Open House (exhibits, networking, and food)
<b>Friday February 24, 2012</b>	
8:00 AM - 9:15 AM	<b>Part 6 - Key Notes for a Successful Project</b> Selection of right materials & process, design by an experienced, registered engineer, clear & detailed well-written tender & contract specifications, and field quality control & quality assurance program
9:15 AM - 9:45 AM	Coffee Break
9:45 AM - 11:00 AM	<b>Part 7 - Inspection &amp; Quality Assurance</b> Compliance with by-laws & safety regulations, contract specifications, documentation, protection of owner's interests, public relations, and understanding and reconciling CIPP sample test results
11:00 AM - 12:00 PM	Q&A Period, Closing Remarks & Course Evaluations
12:00 PM	Course Adjourned

## Attendee & Exhibitor Registration Form Tri-State Trenchless Technology Seminar Bowling Green State University – Bowling Green, Ohio

### Attendee and Exhibitor Information (please print clearly)

Only one registration form per attendee. Please duplicate for additional registrations.

Please mail completed form to Heidi Hakel, College of Technology, Bowling Green State University, Bowling Green, OH or fax it to 419-372-6881

Name \_\_\_\_\_ Job Title \_\_\_\_\_

Company/Organization \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Phone \_\_\_\_\_ Fax \_\_\_\_\_ E-mail \_\_\_\_\_

2012 NASTT Member? Yes \_\_\_\_\_ No \_\_\_\_\_

Full Seminar Registration Fees	Early	After 2/15/11
NASTT Members	<input type="checkbox"/> \$150	<input type="checkbox"/> \$200
Non-Member	<input type="checkbox"/> \$250	<input type="checkbox"/> \$300
Sponsors	<input type="checkbox"/> \$300	<input type="checkbox"/> \$350
Exhibitors (includes tabletop display & 2 full conference passes)	<input type="checkbox"/> \$600	<input type="checkbox"/> \$700

### Payment Method

Check or money order enclosed (payable to *Bowling Green State University*).

Purchase Order # \_\_\_\_\_ Amount Due \_\_\_\_\_

Send Invoice to: Name \_\_\_\_\_ Company/Organization \_\_\_\_\_

Address \_\_\_\_\_

Phone \_\_\_\_\_ Fax \_\_\_\_\_

Credit Card:  Visa  MasterCard  Discover

Name on the card \_\_\_\_\_

Account # \_\_\_\_\_ Exp. \_\_\_\_\_

Signature \_\_\_\_\_ Today's Date \_\_\_\_\_

No penalty for cancellations before 7 days prior to the event. Substitutions may be made at any time.

#### *For More Information*

For registration questions, contact Heidi Hakel via [hhakel@bgsu.edu](mailto:hhakel@bgsu.edu) or 419-372-5439. For course content questions, contact **Dr. Alan Atalah** at [aatalah@bgsu.edu](mailto:aatalah@bgsu.edu) or 419-372-8354.