



*NASTT's*  
**Pipe Bursting Good Practices Course**  
**Thursday, July 21, 2011 – 8:30 AM to 4:30 PM**  
**York Region, Ontario Canada**



The Great Lakes, St. Lawrence and Atlantic Chapter (GLSLA) of the North American Society for Trenchless Technology is pleased to offer a special *Pipe Bursting Good Practices Course*, Thursday, July 21, 2011, at the York Region Waste Management Centre in York Region, Ontario Canada.

**You Need to Know Pipe Bursting!** Pipe bursting is the perfect no-dig process to replace an existing line with a completely new, larger pipe – without excavating. This construction technique is recognized as one of the only methods of trenchless rehabilitation that replaces an existing line with a completely new pipe, providing a total pipe replacement, and allows for the replacement of an existing pipe with a new line of equal or larger diameter – to maintain or increase flow capabilities. *Learn more about the benefits of the pipe bursting method, July 21<sup>st</sup> in York!*

**NEW Course Material!** Pipe bursting practice has rapidly evolved in recent years. New techniques have been developed for replacing/re-installing laterals, bypass pumping and segmental pipe installation. The course material has been updated to capture these recent developments. In addition, the course material follows a more natural chronological progression of the pipe bursting process, from planning through construction. Troubleshooting and classroom exercises have been updated and revised to achieve better relevance to real-world design and construction issues.

**Who Should Attend?** Engineering consultants; utility engineers and managers; government engineers and public works managers; contractors; and others with responsibilities for implementing or managing construction projects using trenchless construction techniques.

**Course Instructor:**

**Dr. Samuel T. Ariaratnam, P.E.** is a Professor in the Ira A. Fulton School of Engineering at Arizona State University. He received his B.A.Sc. in Civil Engineering from the University of Waterloo and his M.S. and Ph.D. from the University of Illinois at Urbana-Champaign. He is a co-author of the *Horizontal Directional Drilling Good Practices Guidelines* and the *Pipe Bursting Good Practices* manuals with Dr. David Bennett. He is a registered professional engineer in Arizona and Ontario.

**Continuing Education Units (CEUs):** Educational programs offered by NASTT further your education, provide opportunities to get involved and gain knowledge of technical advances in your field, and in many cases are required in order for you to renew licenses or certifications. Earn valuable CEUs for your attendance and participation. (One CEU = 10 Professional Development Hours). By attending this course, you will earn 0.7 CEUs and receive a certificate issued by Louisiana Tech University.

**Course Fees:** \$375 CAD/members and \$475 CAD/non-members. Current 2011 members of NASTT receive a discounted rate. (Membership will be verified with the NASTT HQ office.) Not a current member? The non-member rate includes a one-year membership to NASTT.

Your course registration fee includes:

- Course handouts and complimentary copy of *NASTT's Pipe Bursting Good Practices Guidelines Manual, 2<sup>nd</sup> edition*
- Continental breakfast, breaks and lunch

- CEU certificate issued by Louisiana Tech University
- Comprehensive, consensus-based information, non-commercial presentation
- Expert course instructors who are leaders in their respective fields and can help answer your questions not outlined in the course agenda

**To Register:** *Don't delay! Limited seating is available.* Complete the registration form included with this brochure flyer. Call Frank A. Badinski at 905-955-0959 or e-mail: [frank.badinski@york.ca](mailto:frank.badinski@york.ca).

**For Course Content Questions:** Contact Angela Ghosh at NASTT. Phone: 703-217-1382 or 330-491-0058 or e-mail: [aghosh@nastt.org](mailto:aghosh@nastt.org). Visit NASTT's web site at: [www.nastt.org](http://www.nastt.org).

**Course Location:** York Region Waste Management Centre, 100 Garfield Wright Blvd., East Gwillimbury.

**NASTT's Pipe Bursting Good Practices Course Agenda**

8:00 AM Registration Check-in & Introduction & Continental Breakfast

8:30 AM **Welcome Remarks & Introductions**

8:45 AM **Module 1: Overview of Course**

- Pipe Bursting Techniques
- Applicable Areas
- Pipe Considerations
- Risks and Potential Problems

9:45 AM *Break*

10:00 AM **Module 2 (part 1): Planning & Design**

- Site Investigations
- Factors that Impact Design
- Risk Evaluation

11:30 AM *Lunch*

12:30 PM **Module 2 (part 2): Planning & Design**

- Design Calculations
- Drawings and Specifications

2:00 PM *Break*

2:15 PM **Module 3: Construction**

- Submittals
- Construction Sequence

3:45 PM **Module 4: Troubleshooting & Classroom Exercises**

4:15 PM *Q&A Period, Course Evaluations & Closing Remarks*

4:30 PM Course Adjourned

*Course agenda is subject to change.*

# REGISTRATION FORM

## **NASTT's Pipe Bursting Good Practices Course**

July 21, 2011 • York Region Waste Management Centre • 100 Garfield Wright Blvd., East Gwillimbury

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|-----------------------|-----------------------|------------------------|---|
| <b>Name(s)</b>        |                       | <b>Title:</b>          |   |
| <b>Organization</b>   |                       | <b>Department</b>      |   |
| <b>Street Address</b> |                       |                        | <b>2011 NASTT Member</b><br>YES      NO |
| <b>City</b>           | <b>State/Province</b> | <b>Zip/Postal Code</b> |   |
| <b>Phone Number</b>   | <b>Fax Number</b>     | <b>E-Mail Address</b>  |   |

**NASTT members receive discounted pricing! Not sure if you're already a member?**  
 Visit [www.nastt.org](http://www.nastt.org) for a directory of current members or e-mail Angela Ghosh at [aghosh@nastt.org](mailto:aghosh@nastt.org).  
 The non-member registration fee includes membership to NASTT for one full year.

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| <p><b>NASTT MEMBERS</b>      _____ @ \$375 CAD = \$ _____</p> <p><b>*NON-MEMBERS</b>      _____ @ \$475 CAD = \$ _____</p> | <p><b><u>Interested in exhibiting or sponsoring?</u></b></p> <p>For booth display and sponsorship info, please call Frank Badinski at</p> <p><b>905-955-0959 or e-mail: frank.badinski@york.ca</b></p> |
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**Three Easy Ways to Register:**

1. Fax this completed registration form to: **Frank A. Badinski**, Regional Municipality of York, Fax: 905-895-3112
2. E-mail to: [frank.badinski@york.ca](mailto:frank.badinski@york.ca)
3. Mail your registration and cheque to:
 

**GLSLA NASTT Course**  
 c/o The Regional Municipality of York  
 380 Bayview Parkway  
 Newmarket, Ontario L3Y 4W3 Canada  
 Attention: **Frank A. Badinski**
4. Pre-register by faxing or e-mailing this form, and bring your cheque on-site to the course.

Cheques should be made payable to “**Great Lakes Saint Lawrence and Atlantic Chapter, NASTT.**” Personnel may be substituted at any time.