

The Northern California Pipe Users Group (PUG) and the North American Society for Trenchless Technologies (NASTT) are pleased to offer a special one-day training course on:

NASTT's

Introduction to Trenchless Technology - Rehabilitation Introduction to Trenchless Technology - New Installations

Held on:
Thursday, October 12th, 2023
8:00 a.m. to 5:00 p.m.

At the office of:
Brown and Caldwell
201 N. Civic Dr. Suite 300, Walnut Creek, CA 94596

General Course Information:

Description

The Northern California Pipe Users Group (PUG) and the North American Society of Trenchless Technologies (NASTT) are pleased to offer NASTT's Introduction to Trenchless Technology Rehabilitation Good Practices and Introduction to Trenchless Technology New Installations Good Practices Courses.

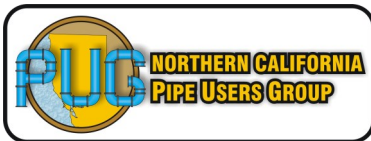
These introductory short courses (4 hours each) are ideally suited for both newcomers to the industry and for anyone who is interested in seeking a refresher course on trenchless technology methods. Both the rehabilitation and new installation courses provide an overview of the methods available to public works and utilities to rehabilitate or install water and sewer systems with minimal excavation. Continuing Education Units (CEUs) are offered for attendee participation and copies of NASTT's publications on New Installations and Introduction to Rehabilitation Methods will be available for purchase in advance of the trainings.

Introduction to Trenchless Technology - New Installations

The NASTT New Installation Methods Good Practices Course is geared to address numerous trenchless methods commonly used in North America to install new pipe and conduit. This will include: auger boring, pipe ramming, pipe jacking and pilot tube methods.

Introduction to Trenchless Technology - Rehabilitation

This introductory course is ideally suited for both newcomers to the industry and for anyone who is interested in seeking a refresher course on trenchless technology methods. The rehabilitation section provides an overview of the methods available to public works and utilities to rehabilitate water and sewer systems with minimal excavation.



Course Instructors:

NASTT's: Introduction to Trenchless Technology - New Installations

Brian Avon, PE

Brian is an Associate Vice President with Carollo Engineers, located in Walnut Creek, California. Brian has more than 14 years of experience in design, preparing contract documents and cost estimates, and facilitating the acquisition of permits for pipeline projects. His work has included systems evaluation, development of rehabilitation/replacement improvements, construction, geotechnical engineering, and specialty inspection. Over the past 12 years most of Brian's projects have been trenchless focused. Brian serves as Carollo's trenchless technology lead, is the immediate past chair of WESTT and teaches courses on Trenchless New Installation Methods and Horizontal Directional Drilling for NASTT.

Kate Wallin, PE

Kate has been involved with trenchless design since 2005 and has provided design and construction management services on projects using horizontal directional drilling, microtunneling, pipe ramming, guided boring, and earth pressure balance pipe jacking. Ms. Wallin has cultivated relationships with owners, engineers, permitting agencies, contractors, and manufacturers within the field of trenchless technology to improve the standard of practice in the field. She was a contributing author for the 4th edition of the Horizontal Directional Drilling Good Practices Guidelines as well as the 1st edition of the Introduction to Trenchless Technology: New Installation Methods Good Practices Guidelines.

NASTT's: Introduction to Trenchless Technology - Rehabilitation

Jennifer Glynn, PE

Jen is a Senior Technical Practice Lead and Principal for Woodard & Curran out of their Sacramento, California office. She has over 25 years of experience in Project Management and Infrastructure Design, with an expertise in Condition Assessment and Trenchless Rehabilitation. Jen has been authoring papers and presenting at conferences both domestically and internationally for the past 20+ years. She is a past Executive Board Member for NASTT and is currently on the Board of Directors for their Western Chapter. She is also a member of the AWWA Water Main Rehabilitation Standards Committee.

Cindy Preuss, PE

Cindy is a registered professional engineer in California and brings over 24 years of experience in planning, designing and managing large-scale public water and wastewater projects throughout the West. As Water Conveyance Discipline Leader at CDM Smith, Cindy serves as an internal resource to project teams across the country, providing her insight and knowledge in water and wastewater pipeline rehabilitation and construction. Her expertise with trenchless technology project planning, evaluation, design and inspection has been of particular benefit to those with whom she works, and is a facet of our industry about which she is especially passionate.

Over her career, Cindy has served on the Board of Directors of both NASTT and WESTT, as well as the Northern California Pipe Users Group (Nor Cal PUG). Cindy currently serves on the AWWA Water Main Rehabilitation Committee, and is also an instructor for NASTT's Trenchless 101 Good Practices Courses.

Morning Session

Introduction to Trenchless Technology - *New Installations*

CHECK-IN & REGISTRATION 7:30 AM.

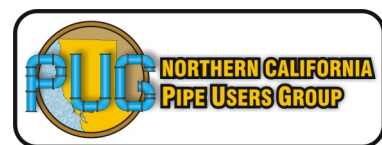
- 8:00 AM Opening Remarks & Introductions
- 8:10 AM **Module 1:** Introduction to New Installation Methods
- 8:20 AM **Module 2:** Horizontal Directional Drilling
- 9:15 AM **Module 3:** Piercing and Pipe Ramming
- 9:45 AM BREAK
- 10:00 AM **Module 4:** Auger Boring and Pilot Tube Method, and Vacuum Method
- 10:55 AM **Module 5:** Open-Shield Pipe Jacking, Microtunneling, and Earth Pressure Balance
- 11:50 AM **Module 6:** Comparison, Summary, and Q&A
- 12:00 PM LUNCH

Afternoon Session

Introduction to Trenchless Technology - *Rehabilitation*

- 1:00 PM Opening Remarks & Introductions
- Module 1:** Rehabilitation Project Planning
- Module 2:** Pipeline Assessment
- Module 3:** Intro to Technologies & CIPP
- Module 4:** Spray on Liners
- 2:30 PM BREAK
- Module 5:** Close Fitting HDPE Liners
- Module 6:** Sliplining
- Module 7:** Pipe Bursting, Splitting & Reaming
- 3:30 PM BREAK
- Module 8:** Panel Liners
- Module 9:** Spiral Wound Liners
- Module 10:** Spot Repair Technologies
- Module 11:** Manhole Rehabilitation
- Module 12:** Lateral Lining
- Q&A
- 5:00 PM Adjourn

Presented by:



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Earn Continuing Education Units (CEUs) for your participation!

Breakfast and Lunch will be provided.



REGISTRATION INFORMATION

Date: October 12, 2023
Time: 8 am to 5 pm
Location: Brown and Caldwell
201 N. Civic Dr. Suite 300, Walnut Creek, CA 94596

REGISTRATION OPTIONS

- Course Registration only - \$300 (\$350 for non-members)
- Course Registration with NASTT New Installation Methods Good Practices Publication - \$350 (\$400 for non-members)
- Course Registration with Intro to Rehabilitation Methods Good Practices Publication - \$350 (\$400 for non-members)
- Course Registration with both Publications - \$400 (\$450 for non-members)

REGISTRATION: Registration closes October 6, 2023.

To register for this course, please complete the Google Registration Form at the link below:
<https://forms.gle/hFz35fc1a4SaVBYHA>

PAYMENT

Payment can be made via PayPal or check. To pay by PayPal, please visit:
<https://norcalpug.com/calendar/workshops-training/>

To pay by check, please make check payable to "Pipe Users Group" and mail checks to:

NorCal PUG - Attn: Alexandra Watson
2070 N. Broadway
P.O Box 4013
Walnut Creek, CA 94596