

# HDD Consortium's Horizontal Directional Drilling (HDD) Good Practices Guidelines Course Tuesday, September 13, 2011 Martinez, California



The Northern California Pipe Users Group (PUG) is pleased to sponsor the HDD Consortium's Horizontal Directional Drilling (HDD) Good Practices Guidelines Course, Tuesday, Sept. 13, in Martinez, California at the offices of the Central Contra Costa Sanitary District. The training is developed by the members of the HDD Consortium and conducted by the North American Society for Trenchless Technology (NASTT).

**Why Do You Need to Know HDD?** Horizontal directional drilling (HDD) has become a workhorse that is used every day on utility construction projects. To be most effective in specifying, managing and inspecting utility construction projects, you need to know the in's and out's of HDD.

This course will help you to:

- Become familiar with HDD equipment and techniques
- Decide what projects would benefit from HDD techniques
- Design and specify to fully realize the advantages of HDD
- Supervise and inspect HDD construction
- Apply HDD to your real-world projects

**Course Background:** Due to the increasing use of HDD rigs across North America, the HDD industry released the *HDD Good Practices Guidelines Manual* that provides contractors, engineers and owners with an industry driven document prepared by experts in the field. The guidelines were developed by members of the HDD Consortium: DCCA, DCA, AEM, NUCA and NASTT. *Each course participant will receive a complimentary copy (third edition).*

**What You Will Learn:** The *Guidelines* and training address all important aspects of HDD, from planning through construction:

- HDD Applications and Process
- HDD Equipment, Materials, Drilling Fluids
- Design (new Chapter 4 in 3rd ed., 2008)
- Bore Planning
- Safety
- Troubleshooting, Risk Reduction and Mitigation

**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 Instructors:**

**Dr. David Bennett, P.E.** is a registered professional engineer and principal of Bennett Trenchless Engineers, a top 50 trenchless consulting firm, serving clients nationwide. David earned BS and MCE degrees in Civil Engineering from Mississippi State University before earning his Ph.D. in Geotechnical Engineering at the University of Illinois. He has authored or co-authored over 50 publications in the areas of trenchless technology and geotechnical engineering, including the *HDD Good Practices Guidelines* and the *Pipe Bursting Good Practices Guidelines*. He serves on the editorial advisory board for *Trenchless Technology Magazine*. He is active in the American Society of Civil Engineers, the Geoinstitute, and the North American Society for Trenchless Technology, serving on several technical and conference committees. He was honored to be selected as Trenchless Technology Person of the Year in 2005.

**Dr. Glenn Duyvestyn, P.E.** is a Senior Trenchless Engineer with Hatch Mott MacDonald who brings 13 years of professional civil engineering experience in the trenchless field. He worked on some of the most challenging HDD, microtunneling, open shield pipe jacking, auger boring, pipe ramming and pipe bursting projects in North America, Australia and the Caribbean. His HDD design experience includes over 145,000-ft. of pipeline installations for water, wastewater, gas, and electrical conduits. He has a doctorate degree in Civil Engineering from the University of Waterloo, Ontario, Canada where his research focused on predicting ground movements during pipe bursting and HDD installations.

**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 0.8 CEUs and receive a certificate issued by Louisiana Tech University.

**Course Fees:** : \$295-members, \$395-non-members, and \$150 current university professors. A group discount rate is available of \$250 per person if a member entity sends 5 people or more to attend the course

Your course registration fee includes:

- Course handouts and complimentary copy of the *HDD Good Practices Guidelines Manual (3<sup>rd</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. Contact Deanna Tanner, PUG Administrator. Phone: 925-210-2436 or email: [dtanner@brwncald.com](mailto:dtanner@brwncald.com) \*  
*\*preferred*

**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:** Central Contra Costa Sanitary District, 5019 Imhoff Place, Martinez, CA 94553 from 7:45 to 5:30.

**About PUG:** Formed in 1992, the Northern California Pipe User's Group (PUG) started as a group of System Owners and Engineers sharing information and technologies. Over the years, the group has grown to over 50 member agencies, established non-profit status, offers field trips, courses and the seminar in addition to the monthly meetings and has opened the door to contractors, vendors and suppliers. For more information, visit [www.norcalpug.com](http://www.norcalpug.com).

**About NASTT:** Founded in 1990, the North American Society for Trenchless Technology (NASTT) is a not-for-profit, educational and technical society that is dedicated to promoting the benefits of trenchless technology for public awareness through education, training and research. NASTT is the definitive resource for trenchless professionals, who are concerned with underground systems and the applications of trenchless technology. For more information, visit [www.nastt.org](http://www.nastt.org).



**HDD Consortium's  
Horizontal Directional Drilling (HDD)  
Good Practices Guidelines Course**  
Tuesday, September 13, 2011  
Martinez, California



---

**HDD Good Practices Guidelines Course Agenda**

- 7:45 AM *Continental Breakfast*
- 8:30 AM *Opening Remarks & Introductions*
- 8:45 AM **Course Overview & Background**
- 9:00 AM **HDD Applications & Processes**
- 9:45 AM **HDD Tooling**
- 10:15 AM *Break*
- 10:30 AM **Bore Tracking & Equipment**
- 11:00 AM **Job Site Safety**
- 11:30 AM **Overview of Drilling Fluids**
- 12:15 PM *Lunch*
- 1:00 PM **HDD Design – new section!**
- 2:30 PM *Break*
- 2:45 PM **Bore Planning**
- 3:45 PM **Risk Reduction, Troubleshooting & Mitigation**
- 4:30 PM **In-class Exercises**
- 5:00 PM *Q&A Period & Course Evaluations*
- 5:30 PM *Course Adjourns*

*Agenda is subject to change.*



Pipe Users Group  
www.norcalpug.com



North American  
Society for Trenchless  
Technology  
www.nastt.org

**The North American Society for  
Trenchless Technology (NASTT) &  
The Northern California Pipe User's Group (PUG)  
*are pleased to offer a special one-day***

**HDD Consortium's  
Horizontal Directional Drilling (HDD)  
Good Practices Guidelines Course**

*At the office of:*  
Central Contra Costa Sanitary District  
5019 Imhoff Place, Martinez, CA 94553

Tuesday, September 13, 2011  
7:45 am to 5:30 pm

NASTT Course Instructors:  
Dr. David Bennett, P.E. - Bennett Trenchless Engineers  
and Dr. Glenn Duyvestyn, P.E. - Hatch Mott MacDonald

Continental breakfast, lunch and afternoon snack will be provided.  
Earn Continuing Education Units (CEUs) for your participation!

**Register only ONE person on each registration form. For multiple registrants, please photocopy. Please print your name exactly as you wish it to appear on your name badge.**

- |   |                              |
|---|------------------------------|
| <input type="checkbox"/> I am a PUG and/or NASTT member! Enclosed is my \$295 registration fee.                                 | <input type="checkbox"/> Yes |
| <input type="checkbox"/> I am <b>NOT</b> a PUG or NASTT member. Enclosed is my \$395 registration fee.                          | <input type="checkbox"/> No  |
| <input type="checkbox"/> Professor Fee. Enclosed is my \$150 registration fee.  |                              |
| <input type="checkbox"/> Enclosed is my registration fee for the group discount rate of \$250 per person for 5 or more. # _____ |                              |

Please indicate if you would like CEUs

**Please make checks payable to Pipe User's Group.**

Name \_\_\_\_\_  
Title \_\_\_\_\_  
Agency/Company \_\_\_\_\_

Lunch will be provided. Please choose one:

- Tri Tip Sandwich
- Chicken Breast Sandwich

**RSVP's must be received by September 6, 2011.**

Send to:

Pipe User's Group  
c/o Brown and Caldwell  
201 North Civic Drive, Suite 115  
Walnut Creek, CA 94596  
Attn: Deanna Tanner  
Phone: 925-210-2436 Fax: 925-937-9026  
E-mail: [dtanner@brwnncald.com](mailto:dtanner@brwnncald.com)