

The 'Zone's layout was improved for better flow and to accommodate new displays. Many visitors commented that the 2007 edition was more attractive, easier to navigate and more informative.

"The RehabZone went exceptionally well this year," said Irv Gemora, NASSCO executive director and RehabZone coordinating chairman. "Exhibit elements looked better than ever, and the flow was much smoother because of the set-up. We had many terrific compliments, not only from visitors going through, but from sponsors who felt their company's money for the RehabZone was indeed well invested."

Gemora praised the many volunteers who worked to make the Zone a success and thanked RehabZone Chairman Ed Campbell, Rehabilitation Resource Solutions, and Dave Kozman, RS Lining Systems, who takes over as chairman for the 2008 edition.

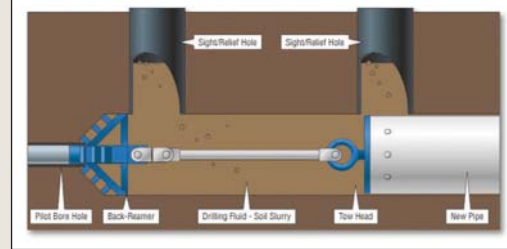
NASSCO sponsors the RehabZone in cooperation with the American Society of Civil Engineers' Trenchless Installation of Pipelines and Pipeline Infrastructure Systems technical committee, the Water Environment Federation's Collection System Committee, and Underground Construction magazine. It is funded by sponsoring organizations and participating companies.

FOR MORE INFORMATION:

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McLaughlin To Manufacture Tools For ArrowBore Process

Dave Gasmovic, president of McLaughlin Manufacturing, Greenville, SC, and Stephen Taylor, senior commercial manager for Advantica, Loughborough, UK (with offices in Texas and Pennsylvania), have signed an agreement licensing McLaughlin to manufacture tools for the patented ArrowBore process. The deal was announced at the recent Underground Construction Technology Conference & Exhibition held in Houston.



ArrowBore has proven to be an effective HDD method that can compete with open excavation sewer and water specifications not only in terms of price, but without extensive disruption, restoration and social impacts. Typically, ArrowBore uses existing directional drilling machines combined with new tool designs and existing electronics to install sewers at tight grades. The overall process maintains true line and grade; those tolerances are not lost when backreamed because the reamer used to install the pipe is only 1/4-inch larger than the outside diameter of the pipe. The process also allows larger diameter mainline pipes, such as 24-inches, to be installed at depths as shallow as four feet without concern for fluid pressure buildup and soil settlement.

The inventor of ArrowBore is Ted Dimitroff of Columbia, MO. Dimitroff, with the help of McLaughlin will soon introduce over 66 different tools that have never been used in the HDD industry, and will be available through McLaughlin.

Over the last 10 years, directional boring has become a standard construction method for many types of utilities. Lack of consistently accurate methods that could ensure success for sewer main installations has been the most significant obstacle preventing the construction technique from being used more in the sewer industry. The ArrowBore process is now being used to install mains at all depths with grades at or below 0.3 percent utilizing commercially available equipment.

FOR MORE INFORMATION:

McLaughlin Manufacturing: (800) 435-9340, www.mightymole.com
Arrowbore: info@trenchlessflowline.com

NEW PRODUCTS LAUNCHED AT UCT

Attendees at UCT have the opportunity to view many new cutting edge technologies and services offered in the construction and rehabilitation industry. Exhibitors who are looking to showcase their new product innovations know that UCT is the ideal venue to reach their customers.

VERMEER

Vermeer Manufacturing debuted several new products at UCT. First among them was the Vermeer **RTX1250** ride-on trencher with a quad-track design. This unique application of the quad-track concept delivers traction and stability with outstanding flotation in soft or sandy soils.



The quad-track design enhances the performance of the standard dual track system. For example, the RTX1250 has relatively no break-over point, which improves operator comfort and control. In addition, the quad-track design maximizes tractive effort and stability by maintaining constant four-point ground contact and providing full power to all four

tracks. The ground drive features available on rubber-tire units, such as axle oscillation, four-wheel steer and crab steering, are also functional with the quad tracks.

The specialized undercarriage system with suspension offers a new level of versatility by fitting either rubber tires or tracks, depending on ground conditions and application needs.

Vermeer has an exclusive agreement with Loegering Manufacturing Inc. for the RTX1250 track design. In addition to its quad-track design, the unit features a 120-horsepower Cummins turbocharged and charged air-cooled engine that delivers a more aggressive torque curve. This results in a 5-horsepower power bulge that allows the RTX1250 to run at maximum horsepower in work mode. The RTX1250 is capable of trenching depths up to 72 inches, widths up to 18 inches and pulling plow blades up to 36-inches deep.

Eleven attachment controls on the RTX1250 trencher's operator station are located within easy reach on the right side of the tractor. For added comfort, the operator's station rotates 90 degrees allowing

the operator to select unlimited positions. The attachment controls rotate with the operator, keeping them within easy reach at all times. The RTX1250 also features automotive-style steering, a servo-controlled ground-drive system and standard planetary axles.

In addition, the RTX1250's forward/reverse ground-drive foot pedal with patented creep override leaves the operator's hands free to control the many versatile tools. If the operator leaves the seat with the attachment or ground drive engaged, the machine automatically shuts down.

The RTX1250 attachment options include a center-mounted trencher, hydrostatic plow, rockwheel and backhoe. A joystick control featuring a float position for a six-way backfill blade allows smooth backfilling and finish work. Standard backhoe remote controls permit the operator to precisely reposition the machine without leaving the backhoe operator's station.



Vermeer also introduced **Bore Pilot**, a horizontal directional drilling (HDD) tutorial on CD that provides civil engineers, contractors and operators with essential information to operators before, during and after the boring process.

"The CD is used as a planning tool for civil engineers, contractors or operators of HDD equipment, encouraging them to plan ahead so that nothing is overlooked during the boring process," says Ed Savage, underground segment manager for Vermeer.

The tutorial provides an introduction to HDD and the boring process by providing a detailed project process map that helps contractors plan their bores. Bore Pilot also discusses safety considerations, and the types of pipe used in HDD along with their specific applications.

Contractors can also use the pulling load calculator to calculate the required pulling load for a specific HDD project based on the type of pipe used, pipe diameter and total bore length. The calculator will also recommend the appropriate size of drill based on the bore specification entered for the project.

A soil classification guide helps contractors determine the project site's soil type and match the appropriate drill bit and backreamer. It also includes a fluid-mixing process map that shows how much mud should be used based on soil conditions, drill unit and tooling used. (641) 628-3141, vermeer.com

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HAMMERHEAD

The **HammerHead HydroBurst HB125** is a high tonnage pipebursting system ideal for the water and sewer replacement market. The HB125 is based on the Vermeer Navigator HDD platform and packs 250,000 pounds of pulling force. The HydroBurst HB125 is capable of replacing pipes from 4-20 inches in diameter and features a unique rotating rod string that can punch through collapsed lines. With rods weighing only 52 pounds, the HB125 can be operated by one operator. This versatile unit has the power to replace all fractureable pipes and non fractureable pipes like ductile iron, steel and PVC with the ductile splitter. (800) 331-6653, hammerheadmole.com

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VERMEER/DCI

Vermeer, in collaboration with Digital Control Inc. (DCI), introduces the **DigiTrak Eclipse TensiTrak Pullback and Pressure Monitoring System**.

The system provides real-time monitoring of tension loads being applied to the product pipe and drilling fluid pressure during installation.

The system can help contractors prevent frac-outs (inadvertent fluid returns) or, even worse, road buckling. In turn, this can help prevent possible damage to the product and costly reinstalls. The system also records data so the contractor can show what tension load occurred during installation.

The TensiTrak unit, installed between the reamer and the product, transmits data to an Eclipse receiver. In addition to product tension and downhole mud pressure information, the Eclipse system provides depth and location data for real-time tracking during product installation. The data can also be downloaded to a PC after pullback completion. The TensiTrak system is available as an option with a new Eclipse system or as an upgrade to existing Eclipse systems.

In addition, a new integrated remote display offers customers the ability to use any Vermeer or DCI drill head locator system to enhance flexibility and operator ease.

The **Multi-Function Display (MFD)** is integrated into the drill console, helping to reduce the remote display from damage or loss.



The new display does not require replacement batteries and all configurations are set with an easy-to-use menu. The display also automatically identifies which receiver is being used and optimizes functions accordingly.

MFD is offered as a standard component on the D24x40 Series II and D36x50 Series II and the D80x100 Series II and D100x120 Series II will be offered in May. (641) 628-3141, vermeer.com; (425) 251-0559, digitrak.com



TT TECHNOLOGIES

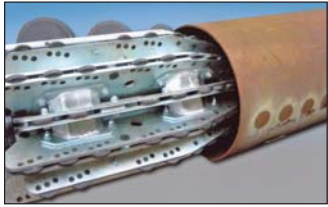
TT Technologies showcased two technologies at UCT. The **Tight-In-Pipe (TIP)** method is ideal for the restoration of failing sewer and water lines. During the TIP

method, a product pipe is pulled inside of the existing pipe utilizing a hydraulic pulling unit such as the Grundoburst 400S. The new restored pipe has a diameter only slightly smaller than the inner diameter of the old pipe, resulting in minimal reduction of the inner diameter.

First, the Grundoburst 400S is set up in the exit pit. QuickLock rods are then rodded through the existing pipe. From the launch pit, a specially designed guiding sleeve is attached to the rods. The guide head with slide rollers is used to restore the circular profile of a deformed or offset pipe. The new pipe is pulled in place behind the guide head. With sectional pipe like PP-HM, the Burstfix tensioning system is used to tension the sections before installation.

When using the TIP method, small to medium sized deformations and off-settings can be evened out and the circular profile of the pipe restored with a roller grinding head attached to the rod string. No annular filling is required and less space and fewer

personnel are needed for a successful pipe restoration using the TIP method.



The world's largest diameter steel cutter head for static bursting was also introduced by TT Technologies. The specially designed bladed roller cutting head allows contractors to burst/split steel pipes up to 32 inches in diameter when used

with larger Grundoburst static bursting systems.

Pulled by a hydraulic bursting unit, the cutter head's special cutting wheels split the host pipe. An attached expander spreads and displaces the split pipe into the surrounding soil while simultaneously pulling in the new pipe.

Patented QuickLock bursting rods are linked together not threaded, which saves time, prevents twisting and extends the life of the cutter head over threaded bursting rods.

Models range in pullback from 60,000 to 650,000 pounds. Grundoburst models are designed for bursting 4- to 48-inch diameter pipe and larger. (800) 533-2078, tstechnologies.com

VECTOR

Vector launched its HXX Prodigy Vacuum Excavator at UCT. A prodigy of the Vector HXX HydroExcavator, a machine that uses vacuum excavation to perform non-destructive digging, the HXX Prodigy is more compact than the full-sized HXX and is more cost effective for municipalities and contractors who are looking to get started in vacuum excavation or are ready to upgrade from a pull-behind unit to a truck.

The Prodigy uses hydro-excitation, blasting away soil with jets of 10 to 20 gallons of water per minute, at rates from 1,500 to 2,500 psi, depending on pump selection, pressure adjustment and nozzle tip configuration.

The Prodigy also comes with an optional air excavation system, further adding to its versatility. The unit features an above-deck compressor system that doesn't need a holding tank to build pressure,



which eliminates the wait time required for pressure build-up.

The 400,000 BTU or 900,000 BTU water heaters available on

the HXX Prodigy allow the operator to cut through frozen ground or heavy clay. The 600-gallon water tank allows for 3.5 hours of continuous operation between refills. The standard tank is fabricated from strong, lightweight, composite material for lower fuel costs and higher payload limits. The Vector HXX Prodigy is available with a choice of either fan or positive-displacement systems.

The Prodigy can be equipped with a telescoping boom with 320-degree rotation and a total reach of 16.5 feet to provide greater reach, while still excavating to the same depths. The optional boom is controlled from the same centrally located panel that regulates and monitors all functions, including air and water pressures, engine rpm, fan speed and lights. It can also be controlled by the pendant remote or the optional wireless remote.

Customers who require a greater payload capacity can choose the larger 8-cubic-yard tank mounted on a tandem axle chassis. (800) 627-3171, vector.com



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