



# Trenchless Technology Center Newsletter

June 1997

## Pipeline Inspection to be Evaluated

The TTC is collaborating with the Civil Engineering Innovative Technology Evaluation Center (CEITEC) to evaluate a Sewer Scanner & Evaluation Technology (SSET). CEITEC has been established by the Civil Engineering Research Foundation (CERF) of the American Society of Civil Engineers.

SSET is an innovative pipeline inspection technology developed in Japan by the TOA Grout and CORE corporations and the Tokyo Metropolitan Government's Sewer Service (TGS) Co.

SSET incorporates state-of-the-art scanner and gyroscopic innovations to mitigate shortcomings of traditional CCTV inspection technologies. It produces a digitized image so a color-coded computer generated interior profile can be printed. A written description of each defect identified is produced and illustrated by a color code at the appropriate location along the pipeline. Horizontal and vertical deflections of the entire line are also provided.

This computer-generated information is more comprehensive than data obtained from current CCTV methods and should be less reliant on field technicians than current systems.

As part of the SSET evaluation, each participating agency will have at least 10,000 lf of its sewer system inspected using SSET and will be provided with an inspection report. Subsequently, working with an evaluation panel that is comprised of members from the participating agencies, CEITEC will publish an evaluation report that clearly documents the performance of the SSET. This report will provide information necessary for state or local agencies to make informed procurement decisions.

Participation in the project is open to any city, municipality, commission or other public entity that has responsibility for the maintenance of a sewer or drainage system. For more information, contact Scott Edwards of CERF at (202) 842-0555, or [sedwards@cerf.asce.org](mailto:sedwards@cerf.asce.org).



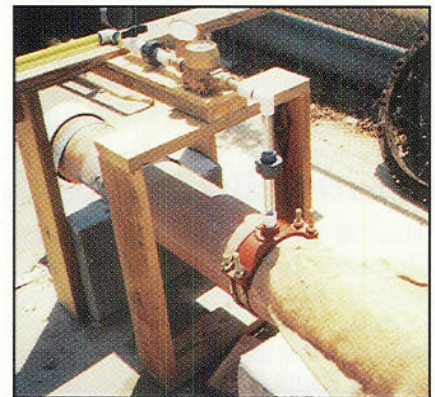
Overall Fluid Migration Test Setup in Baton Rouge

## Annular Space Fluid Migration Studies

Dr. Les Guice and Dr. Reda Bakeer from Tulane University recently collaborated on a research project with the City of Baton Rouge, La., studying the effects of fluid migration in the annular space between the lining system and the host pipe.

Tests were conducted using above-ground vitrified clay pipelines under conditions similar, but not fully identical to, actual in-situ conditions. The tests attempted to quantify the rate of flow of fluid migrating through the annular space or back into the collection system.

Edmund P. Stumpf, special projects engineer with the Department of Pub-



Close Up of Pressure Inlet to Pipe Annular Space

lic Works in the City of Baton Rouge, was the coordinator of the project.

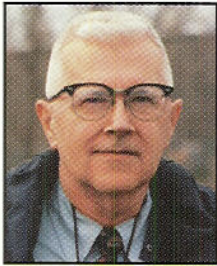
## TTC Issues Annual Report for 1996

The TTC is issuing its first comprehensive annual report. This report will be prepared on a calendar-year basis and will be issued in the first part of

the following year.

Copies of the annual report may be requested by contacting the TTC at the address or phone given in the sidebar.

# ASCE Awards Hadala



Dr. Paul Hadala

In mid-April, Dr. Paul Hadala, associate professor of civil engineering at Louisiana Tech, was notified that he, Dr. William Marcuson, P.E. and Dr. Richard Ledbetter, P.E.—

both of the U.S. Army Corps of Engineers Waterways Experiment Station, Vicksburg, Miss.—have been selected as recipients of the ASCE 1997 Norman Medal.

The Norman Medal is the highest award for technical papers in ASCE and the award is chosen from among all the technical disciplines within

ASCE. The award was made for the paper "Seismic Rehabilitation of Earth Dams" published in the January 1996 ASCE Journal of Geotechnical Engineering.

Prior to coming to Louisiana Tech in 1994, Dr. Hadala was the deputy director of the Geotechnical Laboratory at the Waterways Experiment Station. From 1994-95 he served as the interim director of the TTC.

Hadala is currently active in research related to vibrations and ground movement resulting from trenchless pipe replacement and is helping to develop ASCE guidelines for micro-tunneling pipe.

Hadala will receive the award at the ASCE annual convention in Minneapolis in October.

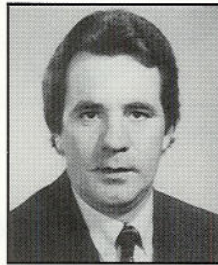
## Bon Voyage to Sean Callan

Sean Callan graduated from Louisiana Tech University in the spring quarter with a bachelor's degree in civil engineering.

Callan had been working for Savin Engineers in New York when he attended Trenchless Technology magazine's field seminar in Orlando, Fla. in February 1993.

Having met Dr. Tom Iseley, then-director of the TTC, at the seminar, Callan was encouraged to enroll at Louisiana Tech to pursue a degree.

During his time at Louisiana Tech, Callan received 17 scholarship



Sean Callan

awards from 10 different entities, participated in many student activities (including being ASCE student chapter president in 1996-97) and graduated with a 3.98 GPA. *Trenchless Technology* magazine and BRH-Garver, Inc. are among those providing scholarships to Callan.

Next fall Callan will transfer to the University of California at Berkeley where he has been awarded a fellowship to study for a master's degree in civil engineering with a geotechnical emphasis.

## Research Colloquium on Current, Future Research

The TTC is organizing a by-invitation colloquium on current and future research issues in trenchless construction.

The objective is to provide an opportunity for leading academic researchers from around the world to interact in an informal way, to discuss major trends in trenchless technology and to foster collaboration in research topics of in-

ternational importance. The colloquium will be held either late in 1997 or early in 1998. Participation from NASTT, ISTT and all the member countries of ISTT has been solicited.

Participation in the colloquium is principally aimed at academic and major industry research institutes, and it is hoped to have an attendance of between 25 and 40 researchers.

## New Industry Support for the TTC

The TTC is pleased to announce that Ultraliner, Inc., Oxford, Ala. joined the TTC Industry Advisory Board in April.

Ultraliner adds to the strong support

and direction the TTC receives from many companies in the trenchless rehabilitation area.

## Industry Advisory Board

**Akerman Manufacturing, Inc.**  
Brownsdale, Minn.

**Belcore**  
Chester, N.J.

**BRH-Garver, Inc.**  
Houston, Texas

**CSR Pipeline Systems**  
Houston, Texas

**Gulf Coast Trenchless Association**  
Houston, Texas

**Hobas Pipe USA, Inc.**  
Houston, Texas

**InLiner USA, Inc.**  
Houston, Texas

**Insituform Technologies, Inc.**  
Memphis, Tenn.

**Lamson Vylon Pipe**  
Cleveland, Ohio

**Soltau Microtunneling**  
Charleston, S.C.

**Trenchless Technology, Inc.**  
Peninsula, Ohio

**Ultraliner, Inc.**  
Oxford, Ala.

## Trenchless Technology Center Newsletter

June 1997

Trenchless Technology Center  
Louisiana Tech University

Director: Dr. Ray Sterling  
Admin. Assistant:  
Martha Stevens

Mailing address:  
P.O. Box 10348  
Ruston, LA 71272-0046 USA

Phone: (318) 257-4072  
Toll-Free: (800) 626-8659  
Fax: (318) 257-2562  
e-mail: [ttc@engr.latech.edu](mailto:ttc@engr.latech.edu)  
Web site for TTC:  
<http://www.latech.edu/tech/engr/ttc/>

The TTC Newsletter is published as a department within *Trenchless Technology* magazine. All newsletter materials are prepared by TTC. Communications should be directed to the center.