

Trenchless Technology Center



Louisiana Tech University

Vol. III, No. 5

May 1994

The Graduate Student Research Force at TTC

The research force of TTC includes, ogy, Dhaka, Bangladesh, in December degree in civil engineering from Tongji but is not limited to, professors from different fields of engineering and business administration in addition to graduate and undergraduate students. The graduate student research force at the center is composed of the following:

Alan Atalah started his doctor of engineering program in 1993. He re-

ceived his master of science degree in civil engineering, construction specialty, from Louisiana Tech in 1991. He graduated with a B.S. in civil engineering, structural department, from Ain Shams Uni-



versity, Cairo, Egypt, in 1982.

Alan worked in construction engineering and management positions in the construction and rehabilitation of the sewer system of Cairo, Egypt for more than six years. He also worked in the construction management of many building projects in Egypt and Saudi Arabia for five years.

Alan is currently assisting Dr. Iseley in teaching construction engineering courses at Louisiana Tech University. He is also preparing educational and presentation material for a training program with NUCA. Alan is the editor of this newsletter.

Salam Khan received his B.S. degree in civil engineering from Bangladesh University of Engineering & Technol-

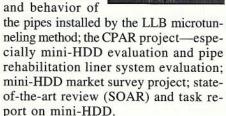
CORRECTION

Item "b" under "Obstacle Detection" in the TTC Newsletter (March '94, p. 28) should have read, "The influence of the overhead lines and the underground powerlines on the EM."

1989. He started his master's program

in civil engineering at Louisiana Tech University in 1992.

Salam been working at the TTC as a research assistant. He participated in the Kidoh research project of measuring the deflection



University in Shanghai, China in July

1991. He started his master's program in civil engineering at Louisi-Tech in ana March '92 and expects to graduate next Nov.

Wen-Xing has been involved in a series of projects conducted at the TTC and is cur-



rently working on his thesis which will illustrate a trenchless philosophy integrating trenchless science, engineering and technology. He is also conducting research about jacking concrete culverts which is a relatively new field in the U.S. Wen-Xing is proud of being Wen-Xing Huang received a B.S. Dr. Iseley's "trenchless man from China."

Louisiana Tech University

Daniel D. Reneau, President Barry A. Benedict, Dean, College of Engineering D. Tom Iseley, Director, TTC Alan Atalah, Editor, TTC Daphne Harrington, Secretary, TTC

Executive Committee

Joseph Barsoom, City and County of Denver Barry A. Benedict, Louisiana Tech University Philip Coller, Iseki, Inc. Nadia Goodman, State of Louisiana Les Guice, Louisiana Tech University Tom Iseley, Louisiana Tech University Mark Kern, Charles Machine Works, Inc. Lynn Osborn, Insituform Technologies, Inc. Richard Thomasson, W.S.S.C. Ron Thompson, Roy F. Weston, Inc. Cliff Tubbs, BRH-Garver, Inc. Rick Turkopp, Hobas Pipe USA, Inc.

Trenchless Technology Center Louisiana Tech University, College of Engineering P.O. Box 10348, Ruston LA 71272 Phone: (318) 257-4072 Fax: (318) 257-2562

Industry Advisory Board

- Bellcore, Larry Slavin. Ph: (201) 829-4330.(Tele) · Bor-Mor, Inc., Robert C. Hegland. Ph: (800) 554-6578 (HDD)
- BRH-Garver, Inc., Cliff Tubbs. Ph: (713) 921-2929.(MT)
- · Charles Machine Works, Inc., Mark Kern. Ph: (800) 654-6481. (HDD)
- · CommCorp, Inc., Harold Boston/Michael Spencer. Ph: (800) 732-3296. (HDD)
- Herrenknecht Corp., Brad Van Meter.
- Ph: (800) 382-7270. (MT)
 Hobas Pipe USA, Inc., Rick Turkopp.
 Ph: (800) 856-7473. (Pipe)
- · Horizontal Holes International, Leo Barbera. Ph: (800) 544-9914. (Aug)
- Insituform Technologies, Inc. Lynn Osborn. Ph: (800) 234-2992. (Rehab)
- Iseki, Inc., Philip Coller. Ph. (619) 597-9500. (MT)
 KA-TE USA, Inc., Mark R. Wallbom/Jonathan Pitt. Ph: (813) 571-1108. (Rehab)
- Korea Telecom, Hyun-Sung Kang Ph: 82-02-526-5435. (Tele)
- Lamson Vylon Pipe, Mike Bank Ph: (800) 321-1970. (Pipe)
 • McLaughlin Boring Systems, Bill Gilman.
- Ph. (800) 435-9340. (Aug/MT)

 Soltau Microtunneling, Paul Nicholas. Ph: (803) 853-3444. (MT)
- Trenchless Technology Magazine, Bernie Krzys. Ph: (216) 467-7588. (TTApp)
- TT Technologies, Chris Brahler, Ph: (708) 851-8200.(HDD)
 Roy F. Weston, Inc., Ron Thompson. Ph: (205) 826-6100. (TTApp)

Current and Latest TTC Activities

creating an interaction between the trenchless industry and academia, eleven students from Louisiana Tech University attended the Trenchless Technology Field Seminar organized by Trenchless Technology magazine in Orlando, Fla., March 14 to 18. The seminar was an opportunity for the students to interact with industry representatives and to learn about trenchless techniques through classes and field demonstrations. The seminar was also one step on the road to preparing qualified human resources for ing trenchless technology training prothe trenchless industry.

More than 20 students attended the No-Dig conference in Dallas, Texas, April 10 to 13. Two graduate students presented papers; one about estimating the required jacking force in pipe jacking operations, and the other about the mini HDD test that took place at the Waterways Experiment Station in

Pursuant to the TTC's objective of program. Dr. Tom Iseley delivered the with considerable expertise in these areas. welcoming address and was involved in numerous committee meetings.

> The colleges of Engineering and Business Administration are jointly conducting a course about marketing the trenchless technology techniques. The objective of the class is to teach students how to identify needs within the industry and create new knowledge then transfer that knowledge into technology and products that meet future needs.

TTC is assisting NUCA in prepargrams to be conducted in 10 NUCA regions starting in September '94. The text material manual will include the slides utilized in the presentation with the corresponding text. The program will cover the topics of mini HDD, microtunneling, rehabilitation techniques, pipe jacking, utility tunneling, slurry boring, and auger boring. The text ma-Vicksburg, Miss. for the on-going CPAR terial was developed by six contractors tober 16-20, 1994.

Dr. Iseley has many commitments in the near future such as:

- · Present paper, "New Developments in Trenchless Pipe Line Rehabilitation" and escort a technical tour group to Berlin, Germany and to the 11th International No-Dig '94 conference and exhibition, Copenhagen, Denmark, May 28 - June 5, 1994.
- Chair a session on microtunneling at "North American Tunneling 94" in Denver, Colo., June 6-9, 1994.
- · Deliver keynote address at "2nd National Conference on Trenchless Technology," Sydney, Australia, June 19-21.
- · Deliver keynote address at "Cable Installation Conference," West Midlands, England, August 9-11, 1994.
- · Co-chair the technical scientific committee and present a paper at the "4th International Conference on Pipeline Construction," Hamburg, Germany, Oc-

Louisiana Tech University Announces Trenchless Scholars

Three students are enrolled at Louisiana sewer products in Latham, N.Y. Tech University on scholarships designated for studies in trenchless technology.

Sean Callan, a native of the Republic of Ireland, is a first year student in the civil engineering program. Matt Brotherton, Grants Pass, Ore., is a freshman in the construction engineering technology (CET) program. Jason Erik Lopez, a senior from New Orleans, will receive a B.S. degree in CET, graduating in 1995.

Dr. Tom Iseley also announced that Adam Vellano, Scotia, N.Y., has been accepted in the CET program, starting fall 1994. Vellano's father, Joseph M. Vellano, is treasurer of NASTT and president of Vellano Brothers, Inc., a supply company for underground water and

Callan, who came to the U.S.A. in 1988, is the recipient of the Trenchless Technology \$1,000 scholarship for a student focused on the study of trenchless technology. While attending the Trenchless Technology Field Seminar in Orlando, Fla. in March 1993, Callan met Dr. Tom Iseley and learned of the research work carried out by the TTC.

Callan decided to pursue a civil engineering degree at Louisiana Tech. During his first quarter of studies, Callan achieved a 4.0 GPA. He commented, "I feel the civil engineering program offered at Tech, coupled with the knowledge and experience to be gained from the TTC is the perfect combination for

in this area."

Brotherton has worked summers in construction using trenchless technology. His father owns Brotherton Pipeline, a contracting firm. He learned about Louisiana Tech from Dr. Iseley while attending a NUCA convention. Brotherton is enrolled in a CET program on a full four-year scholarship.

After serving two years in the U.S. Navy, Lopez came to Louisiana Tech to obtain a B.S. degree in CET from the civil engineering department. He is president of their AGC Student Chapter for 1994-95. His goal is to be an active construction management professional. Lopez received a \$1,000 scholarship from Holly Pipe Corp. He also worked anyone interested in pursuing a career for Holly Pipe during the summer 1993.

Questions on Trenchless Technology?

Do you need more information on trenchless technology? The members of the TTC Industry Advisory Board have committed themselves to the trenchless technology industry. Should you need information concerning matters in their areas of specialty, please contact them directly. The code after each member's name represents the following areas: Aug-Auger Boring; HDD-Horizontal Directional Drilling; MT-Microtunneling; Pipe-Pipe for Microtunneling and Sliplining; Rehab-Trenchless Pipeline Rehabilitation; Tele-Telecommunications; TTApp-Trenchless Technology Applications and Environmental Aspects.

TTC Mailing List Update

The Trenchless Technology Center wants to build and maintain a current mailing list. If you want to receive TTC information, we would appreciate hearing from you. Please provide your mail address, phone and fax, and contact person, so we may add it to or update our records. Fax it to (318) 257-2562, or mail it to: TTC, P.O. Box 10348, Ruston, LA 71212.

The TTC newsletter is incorporated as a department within Trenchless Technology Magazine. All newsletter materials are prepared by TTC. The newsletter is expected to be published every two months. Direct communications to Alan Atalah, editor.