



THE Event For The Utility Infrastructure Industry

Underground Construction Technology
International Conference & Exhibition

Expanding Infrastructure Education & Information Dissemination Options





Presenter: Professor Tom Iseley, Ph. D., P.E., Dist. M. ASCE, PWAM

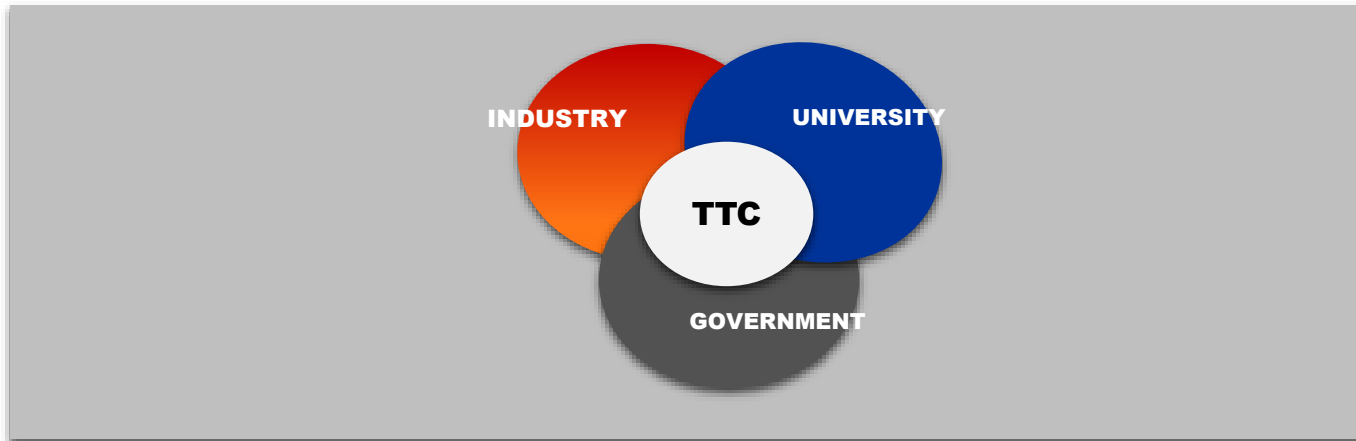
- Professor, Louisiana Tech University
- Director, Trenchless Technology Center (TTC)
- Chair, Buried Asset Management Institute-International (BAMI-I)
- Director, UNITRACC International
- Adjunct Professor, Xi'an Jiaotong University, China



Overview of TTC

TTC is expanding the research focus on integration of trenchless technology into asset management and continues to grow research programs to further increase understanding of the fundamental performance issues associated with various trenchless methods.

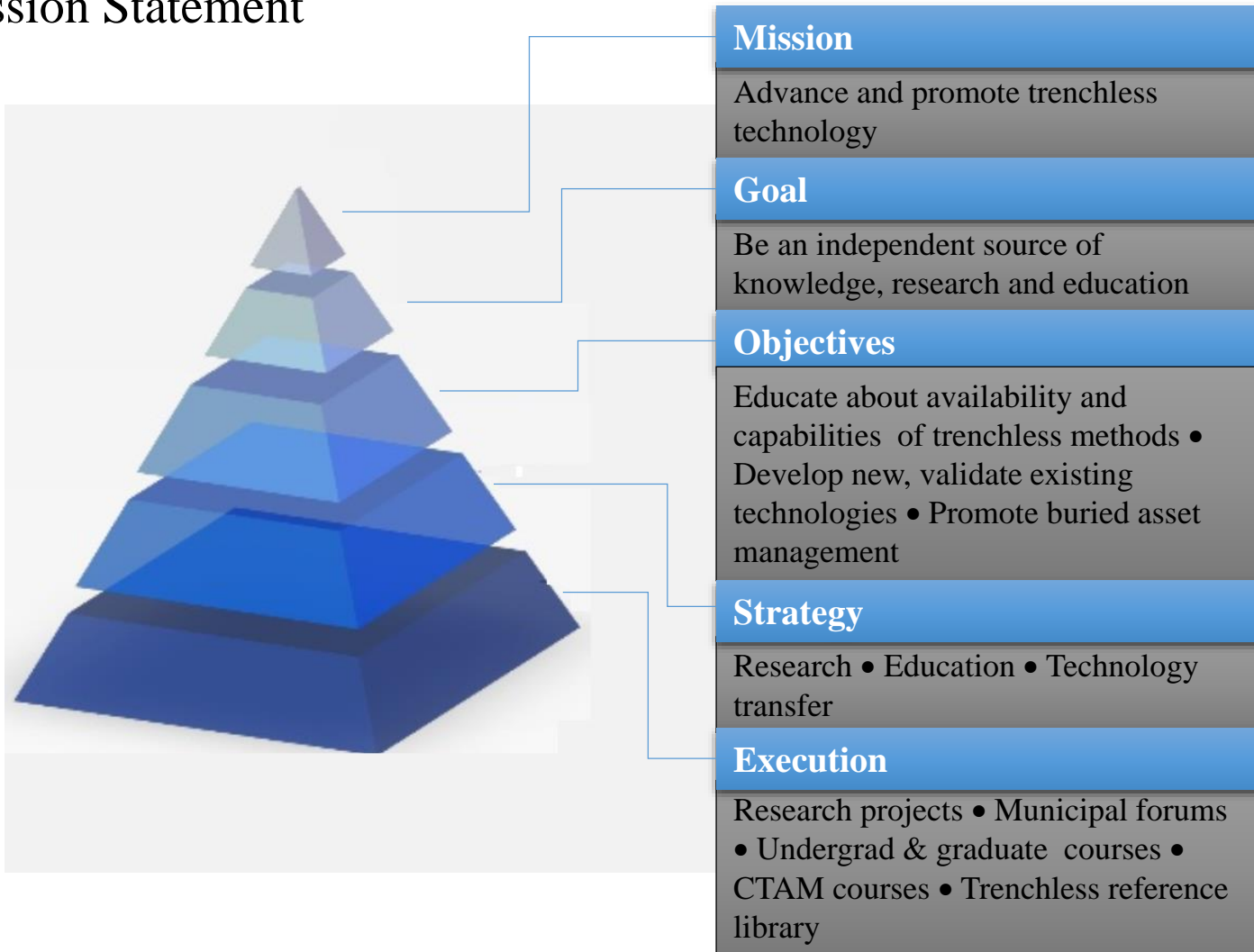
Louisiana Tech University
Trenchless Technology Center
From 1989-2016



- Research • Education • Technology Transfer



Mission Statement





High Bay Area with Soil Test Chamber



National Trenchless Technology Research Facility (NTTRF)



Inside NTTRF



Soil box (small 12'x6'x6', large 10'x20'x11')



Extruder for cementitious samples



Servo-controlled hydraulic ram, large



Liner Inversion Chamber

Material Characterization Laboratory



Servo controlled test machine, large, for tensile and flexure testing



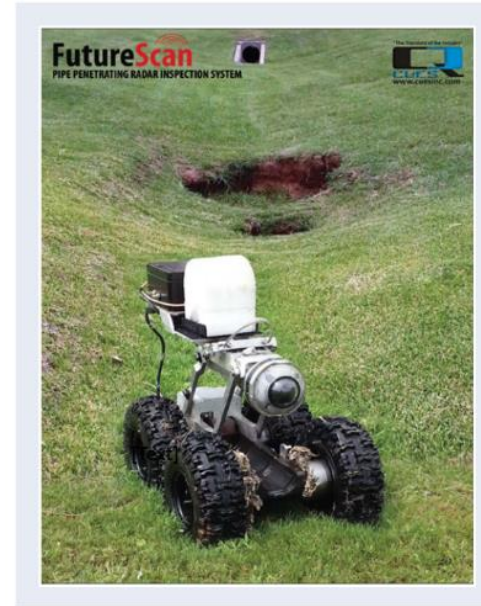
Custom built ovens for CIP lined samples



Rheology laboratory



Field Testing Site



A collaboration between TTC, CUES Inc., a sewer and pipeline inspection company out of Orlando, Florida, and the City of Slidell, Louisiana.

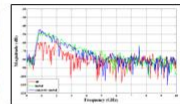
CUES has helped fund the project and a \$3.2 million grant for the project came in through the National Institute of Standards and Technology's Technology Innovation Program.



Testing material property of RCP pipe...

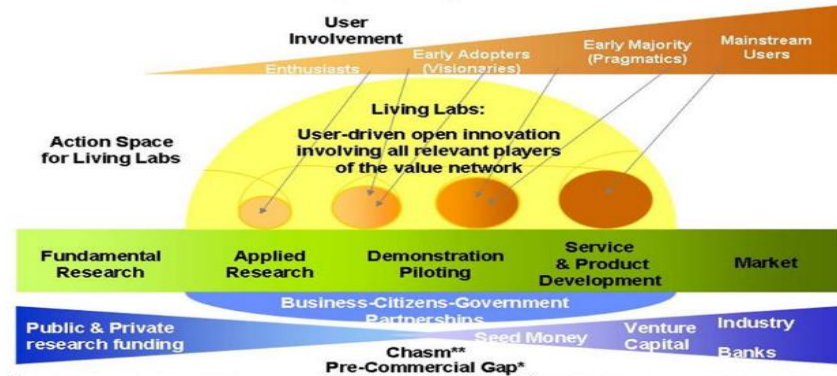


Testing the attenuation in concrete slab...



Validation Utilizing a LIVING LAB Concept

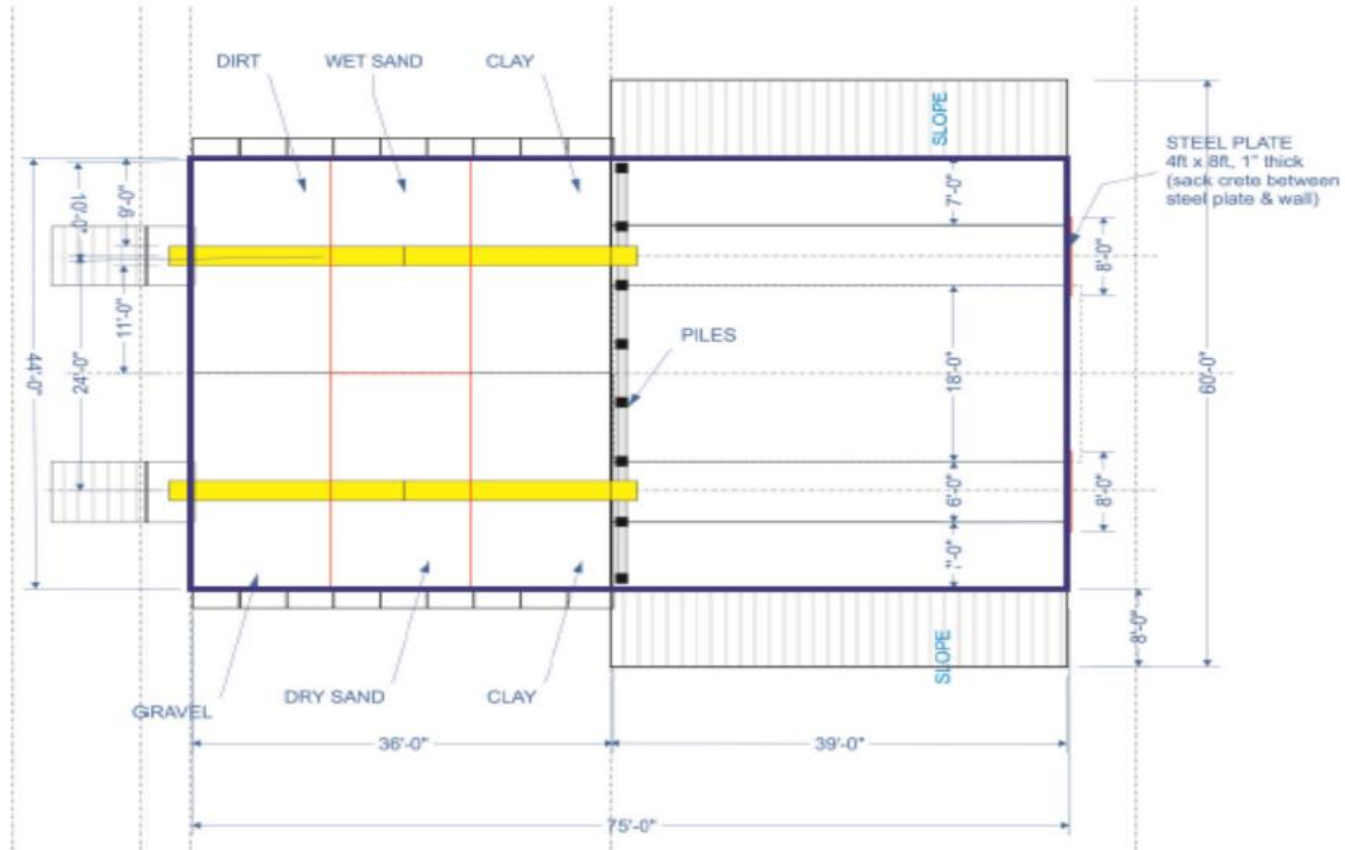
Action space for Living Labs along the technology adaption cycle



* MacDonald and Associates, 2004

** Geoffrey A Moore: Crossing the Chasm, 1999

The 1st annual TTC Auger Boring School October 12-16, 2015



Soil box plan at Louisiana Tech University (South Campus)



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TTC Subsurface Utility Engineering (SUE) School
August 15-19, 2016 - Ruston, LA
<http://ttcspecialtychools.com/uis/>





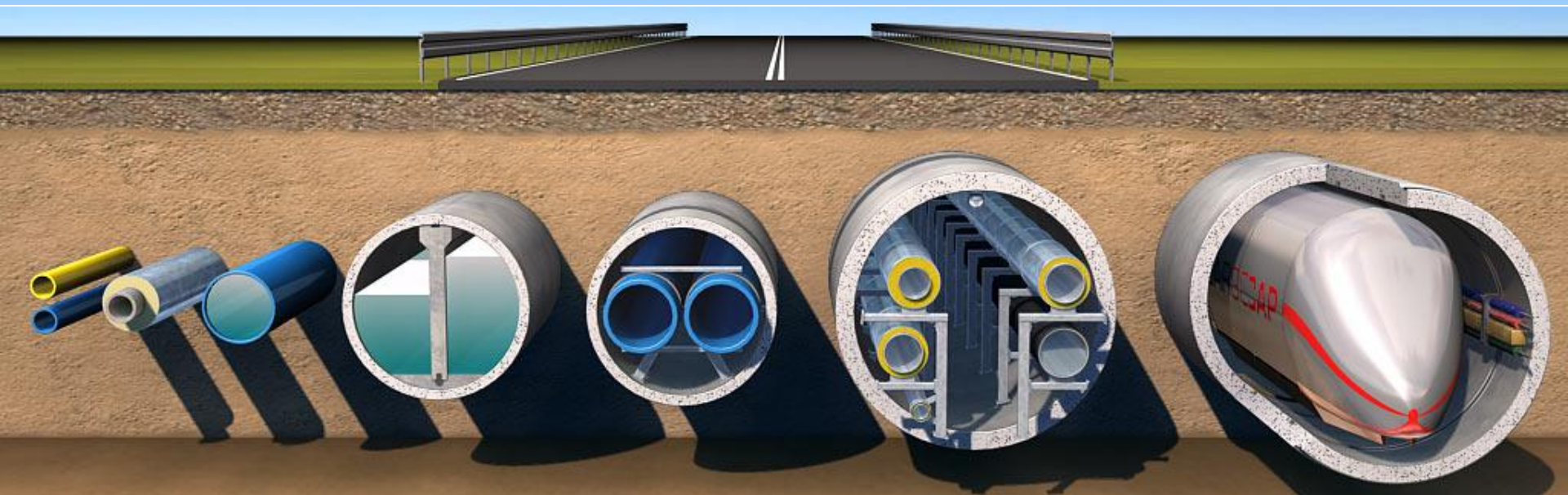
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UNITRACC

The Future is in the Underground



Tom Iseley, Ph.D., P.E., Dist. M. ASCE, PWAM
UNITRACC International Director
CETF Professor of Civil Engineering
Director of the Trenchless
Technology Center Louisiana Tech University





TTC Expands Global E-Learning Options For Water Professionals

The Trenchless Technology Center (TTC) at Louisiana Tech University, Ruston, LA, and Stein & Partner GmbH (SNP) based in Bochum, Germany, recently entered into an agreement to expand the awareness of the Underground Infrastructure Training and Competence Centre (UNITRACC) training and learning programs. This joint initiative will be led by Dr. Tom Isley, director of TTC and Dr. Robert Stein, CEO for SNP.

The UNITRACC e-learning program is a unique knowledge portal which utilizes a large library of media such as photos, animations, videos, graphics, simulations, etc. to provide support for professionals throughout their careers. This network has been developed over a 20-year time span and is designed for professionals in all segments of the water sector. It is a demand-oriented knowledge transfer platform to provide immediate support for decision-making responsibilities in all job-related situations including design, construction, operation and maintenance, and management.

Isley will serve as the international director for UNITRACC.com. He is well-known for his global leadership related to underground infrastructure. TTC has strengthened its international leadership during the past few years, for example, establishing agreements in China with The China University of Geosciences, Xian Jiaotong University, Institute of Geosciences and Environment and Tianjin Qingheng Water.

Isley believes this joint initiative is a major milestone in filling the considerable lack of knowledge about solutions for construction, rehabilitation and management. "The more qualified and informed the decision maker, the higher the chances for the selection of the most appropriate techniques and concepts," Isley said.

It will also have significant impact on advancing the underground infrastructure industry by making sure the right amount of money is being spent on doing the right things at the right time.

Other initiatives

Currently, the TTC has established the following educational and training programs:

- Provides technical and administrative services to the Buried Asset Management Institute International (BAMI-I) and manages the BAMI-ICTAM (Certification of Training for Asset Management) program. (bami.com/)
- A partnering agreement with the Colorado School of Mines for the development of the next generation of four professional development courses. The first will be offered in November 2016 on Geotechnics for Trenchless Construction. (compas.com/events/trenchless/)
- Specialty School programs which consist of three to five days of intensive training on topics such as Auger Boring and Utility Investigations. (itc.latech.edu)
- Global Pipeline Internship Program that in 2016 sent two graduate students from Louisiana Tech to HK Polytechnic University and hosted two students from HK Polytechnic University who helped in the Aug. 15-18 Utility Investigations School (UIS).

TTC Mini-seminar series

The Trenchless Technology Center at Louisiana Tech University has launched a series of special educational programs aimed at providing detailed information about modern trenchless construction, rehabilitation and asset management.

The TTC Trenchless Mini-seminar program was launched during the spring of 2016 as part of a senior-level undergraduate capstone project driven course at Louisiana Tech. The subject selected was a large micro-tunneling project in Canada. Industry leaders from eight organizations provided instruction. This program was expanded in the fall semester of 2016 for a graduate/undergraduate introduction to trenchless technology, where 15 organizations, representing 18 industries, conducted seminars.



Clockwise from top left: Dr. Tom Isley and Dr. Stein signing the agreement. From left to right: Gary Young, James H. Inoué, Brian Tisdley, Dr. Cesar Guirgué, John Campbell, and Philip J. Heis, Jeff Boecker, Eric Buchhaus, and Ralph Carpenter.

The objective of the seminars is to prepare attendees to demonstrate sound engineering judgment for managing the construction, repair and maintenance of underground infrastructures. These seminars are being instructed by the foremost experts in the trenchless industry. The sessions began on Sept. 15 and ran through Oct. 27. Registration is complimentary.

Isley said that "it is very exciting to see how the trenchless industry is partnering with TTC to provide our industry's future decision makers with maximum exposure to the trenchless industry."

The TTC Mini-Seminars are sponsored by the National Clay Pipe Institute, Alderman, Frierley Associates, Portland Utilities Construction Co., Avanti International, Pure Technologies, Underground Imaging Technologies, American Ductile Iron Pipe, Thompson Pump, HASSCO, Whitted Tunneling, Derrick Equipment Company, CDM Smith, Plastic Pipe Institute and Hobas USA.

CONTACT INFORMATION

TTC: Dr. Tom Isley
tisley@latech.edu (318) 257-8767

Mini-Seminars:
www.latech.edu/uct/trenchless-technology-center/mini-seminars, or contact
Sarah.stein@latech.edu (318) 257-8767

October-November Mini-seminar schedule:

Oct. 11 - Corrosion-Resistant Pipe (CRP)
Lynn S. Odom, Development Manager, HASSCO

Oct. 15 - MTM Equipment & Shaft Construction Process - Slurry Separation
Big Post, Vice President, Huxted Tunneling LLC, Matt Wiggins, Technical Service Representative/Solids Control School Instructor, Derrick Equipment Company

Oct. 18 - Shoreport's Consent Decree and the Trenchless Technology Program
Water Carpenter, Project Manager, CDMSmith

Oct. 20 - Design and Installation of PIGGED Water Plains per ANSI/AWWA C900-15 and ANRW M55-04 - PPI
Barold Schwam
Caroline Ruber, Director of Engineering, Plastic Pipe Institute

Oct. 27 - FIP Pipe
Rick Turupp, Vice President, Engineering, Hobas Pipe

The seminars are held from 10 - 11:50 a.m. on the Louisiana Tech campus.



UNITRACC Reference Books



Multimedia Reference Books

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UNITRACC.com STEIN & PARTNER GERMANY

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	causes and consequences, maintenance, cleaning and inspection as well as rehabilitation.			
	<p>Trenchless Technology for Installation of Cables and Pipelines Comprehensive and detailed discussion of trenchless construction methods and all associated fields.</p>	Prof. Dr.-Ing. D. Stein		2005

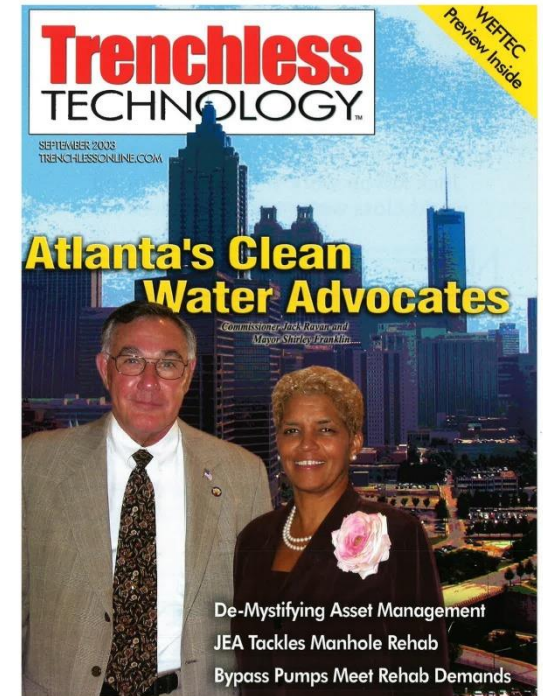


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- In 2003, formed in Atlanta's Department of Watershed Management as a result of inspiration & leadership by Mayor Shirley Franklin & Commissioner Jack Ravan.
- In June 2004, formed as non-profit organization.
- Serves to provide a center of excellence for owners of underground water infrastructure to join with industry and researchers:



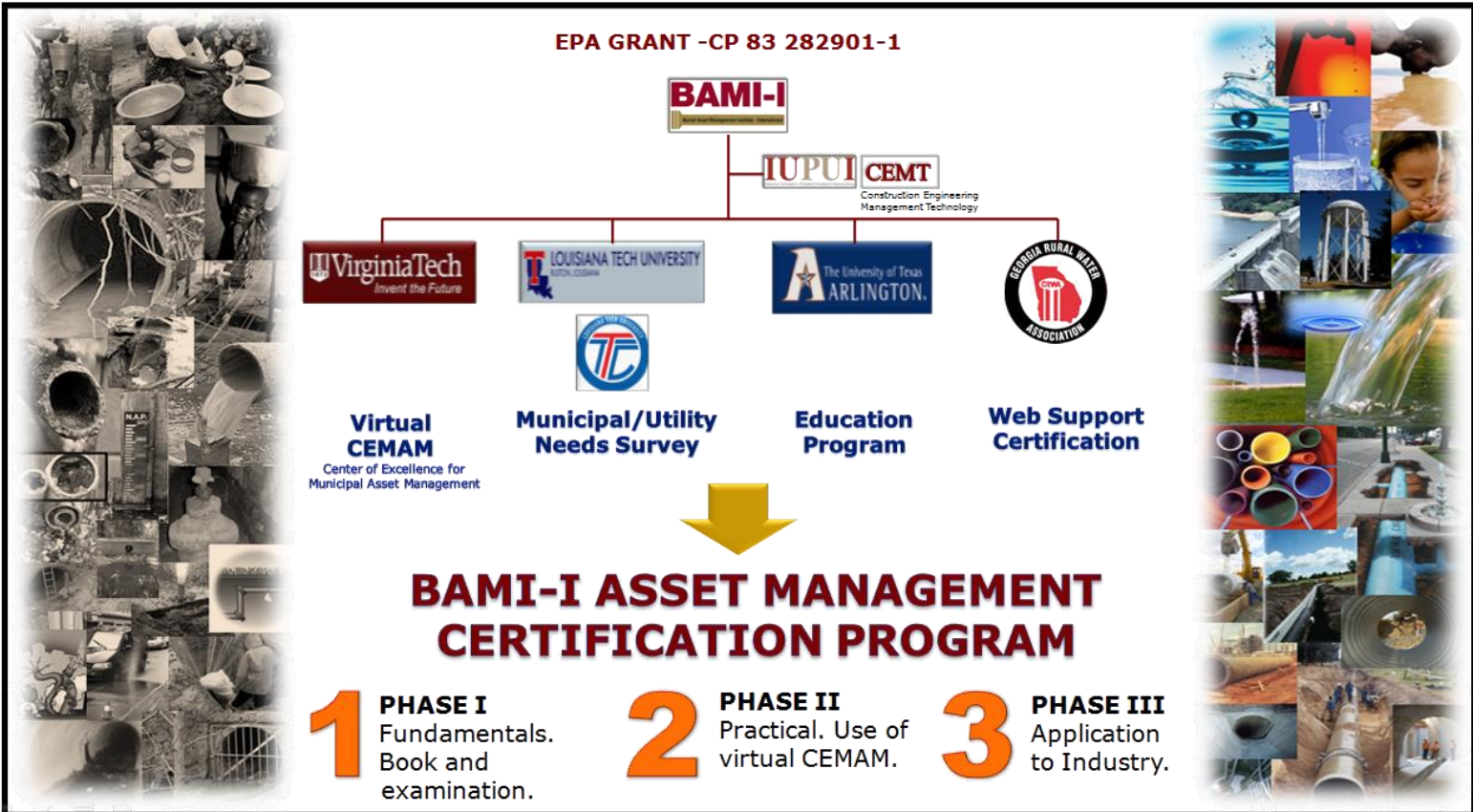


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BAMI-I

Buried Asset Management Institute - International

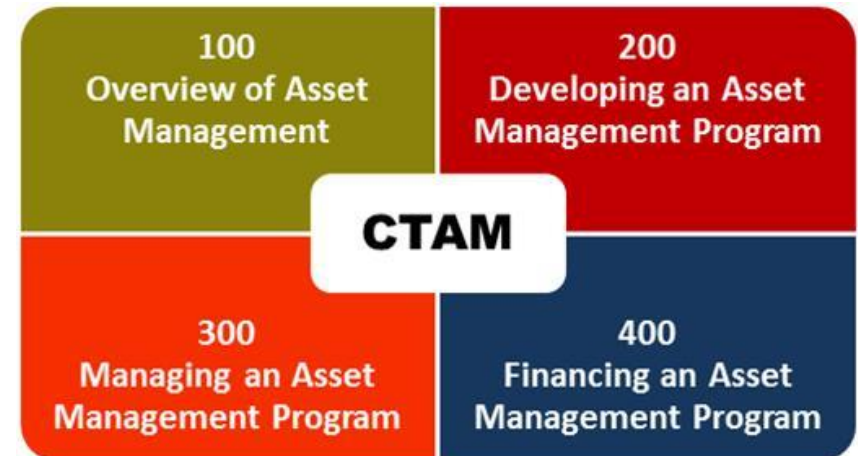


What is CTAM?

- Certification of Training in Asset Management
- Exclusive four-part series training

Levels of Certification

- **Associate Water Asset Manager (AWAM)**
- **Professional Water Asset Manager (PWAM)**





TTC AND BAMI-I LAUNCH A COMPREHENSIVE ASSET MANAGEMENT CERTIFICATION PROGRAM

Raleigh, NC August 17 – 20.





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TTC Municipal Forums





TTC Web Pages: Municipal Forums

Trenchless Technology Center
Louisiana Tech University

Home About TTC Facilities IAB Municipal Forums Research Education Publications Contact TTC Find It Here

Forum Dates

CURRENT SEASON

Forum	Location	Date	Host	Sponsor	Agenda
FALL					
OH	Columbus	Thu, 11/03/16	James Gross, Columbus Public Utilities		2016_oh
LA	Shreveport	Thu, 11/10/16	Ali Mustapha, Caddo Levy District		2016_la
TX	San Antonio	Thu, 12/01/16	Jeff Haby, SAWS		2016_tx
WA	Seattle	Tue, 12/06/16	John Jurgens, City of Seattle		2016_nw1
WA	Vancouver	Thu, 12/08/16	Colleen Harold, City of Portland Eric Schadler, City of Vancouver		2016_nw2



Geotechnics for Trenchless Construction

November 1-3, 2016
Golden, Colorado, USA

<http://csmSPACE.com/events/trenchless/>

The next 3 proposed courses:

- Trenchless Design,
- Trenchless Equipment and
- Contracting and Risk Management.



This three-day knowledge- and skill-building course provides an in-depth, comprehensive review of geotechnical engineering and design required for successful trenchless construction projects.

Trenchless technologies are sustainable methods used to install and renew underground infrastructure, and these innovative technologies have been increasingly utilized in North America. Appropriate selection among trenchless techniques and optimized project design requires a thorough understanding of the geologic subsurface conditions and variability. In this course, trenchless technology's top experts will provide instruction on the state-of-practice in site-characterization and design of trenchless projects.

Hands-on labs and demonstrations of the geotechnical engineering principles required for best trenchless design provide relevant experience for the industry professional, new and seasoned alike. This course is the first of a suite of short courses to be offered and developed as a collaboration between the Colorado School of Mines and Louisiana Tech University. Stay tuned in 2017 for courses on: **Trenchless Design, Equipment and Contracting and Risk Management.**

Organized by:
Colorado School of Mines Center for Underground Construction & Tunneling (UC&T)

Dr. Priscilla Neilson
Department Head and Professor
Department of Mining Engineering
Colorado School of Mines

Dr. Reza Hodayat
Assistant Professor, Department of Civil
and Environmental Engineering
Colorado School of Mines

Dr. Tom Isoley
CETF Professor, Civil Engineering
Director, Trenchless Technology Center
Louisiana Tech University

csmSPACE.com/events/trenchless

WHO SHOULD ATTEND?

Owners, designers, contractors, equipment manufacturers and suppliers involved in the planning, design, construction and management of trenchless projects seeking to expand his/her professional knowledge, as well as those interested in an update on new guidelines.

This short course incorporates the NEW Standard Design and Construction Guidelines for Microtunneling, published by American Society of Civil Engineers in 2015.

CONTINUING EDUCATION:

Colorado School of Mines will award 2.3 CEUs upon successful completion of this course.



Thanks for your attention!

Questions?

Contact information

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