



Center for Underground Infrastructure Research and Education  
The University of Texas at Arlington  
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## CUIRE Faculty

*CUIRE instructors are recognized nationally and are highly experienced practitioners. They have many years of experience in pipelines and trenchless technology construction, renewal, and asset management. They will share with you their experience gained from successfully completed pipeline and underground infrastructure projects.*



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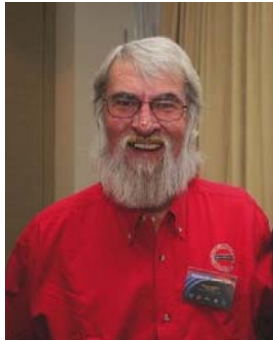
Sam Arnaout is the Senior Principal Engineer. He is active with various group and associations like ASCE, AWWA, ASTM and so on.



### **Jeff Boschert, P.E.**

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Mr. Boschert has a bachelor of science in Civil Engineering from the University of Missouri at Rolla. He is registered professional engineer licensed in Missouri. He was in Missouri Department of Transportation as a structural design and construction inspection. Currently, he is district manager with National Clay Pipe Institute. Also he is active with various group and associations like ASCE, ASTM, APWA, NASTT and so on.



### **Frank Canon**

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Since starting with Baroid in 1975, Frank has been involved in many different drilling disciplines including oilfield, water well, HDD, tunneling, microtunneling, auger boring and foundations drilling. Frank was instrumental in developing drilling practices and principles for HDD and has worked closely with rig manufacturers. Frank has held a variety of positions with Baroid including operations, management and technical support.



### **Robert J. Card, P.E.**

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Over the course of Mr. Card's 30+ year career with pipe and coupling manufacturers and consultants, he has designed over 2,000 individual pipeline projects for a variety of pipe materials. Mr. Card has design expertise with Steel Pipe, Prestressed Concrete Cylinder Pipe, Reinforced Concrete Pipe, Stainless Steel Pipe, Ductile Iron Pipe, Fiberglass Reinforced Plastic Pipe and High Density Polyethylene Pipe. Mr. Card is active in various associations, writing manuals, standards, specifications and codes for organizations such as AWWA, ASCE and ASTM.



### **Ralph Carpenter**

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Mr. Carpenter has over 33 years of experience in the pipe industry and at AMERICAN his role as marketing specialist and project manager – trenchless, has given Ralph the recognition as one of the most knowledgeable trenchless pipe materials individuals in the industry.



**Craig Caswell**

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Mr. Caswell has over 20 years experience in trenchless technology. He was with The Robbins Company as International Project Manager for Tunnel Boring Machine Division. Then he joined Digital Control Incorporated in 1994 as Product Delivery Manager.



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Art Daniel, is President and COO of AR Daniel Construction Services, Inc.. Mr. Daniel has been involved in the utility construction industry for over thirty years. Prior to founding AR Daniel Construction Services in 2005, Mr. Daniel served as Executive Vice President of Boring and Tunnelling Co. of America, Inc. Mr. Daniel received his Bachelors of Arts degree from Houston Baptist University. Mr. Daniel also studied civil engineering at The University of Texas at Arlington and graduate studies in landscape architecture at The University of Texas at Arlington



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Over 10 years ago, Ted refocused his efforts toward developing new technology for use in the open excavation industry. After significant trial and error he has developed and patented two new processes and tools using existing directional drilling equipment to accurately install gravity flow mainline pipes and make the connections for sewer laterals.



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Mr. Doherty is a Fellow in the American Society of Civil Engineers and has over 20 years of experience specializing in the use of trenchless technologies in highly urbanized areas. His rehabilitation experience ranges from spot repairs for small municipal sewer systems to slip lining of large diameter interceptor, including cured-in-place pipe lining and gunite lining. His new trenchless technology installation experience ranges from pipe bursting to microtunneling (including in-line microtunneling) and horizontal directional drilling.



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Mo Ehsani is a Professor Emeritus of Civil Engineering at the Univ. of Arizona and a pioneer in the application of FRP in construction industry. In 1994 he founded QuakeWrap, Inc. a company that specializes in repair and retrofit of structures with FRP. Dr. Ehsani has been featured on major media such as CNN and the History Channel for his expertise on strengthening of structures, related to earthquakes, and other potential structural disasters.



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Siggi has over 21 years experience in the underground construction industry. Has since 1995 been with Digital Control Incorporated, manufacturer of the DigiTrak and F series locating systems for the HDD industry. Primary responsibilities include project and product management, engineering liaison and marketing communications. Has published and presented numerous papers on various topics related to underground construction. Siggi currently is a member of the Electronics Drillmaster Advisory Board for Directional Drilling Magazine.



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Craig has been active in the waterworks industry for two decades. During his career, he has worked as a municipal engineer, a consulting engineer, a design engineer for a large contractor, and as the technical director for a trade association. In these roles, he has authored technical papers, actively participated in standards writing groups, served as a technical reviewer for several texts, and has spoken as a guest lecturer at the university level.



**Troy Freed**

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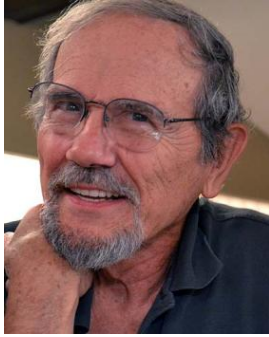
Mr. Freed has been actively engaged in both the domestic water, wastewater and gas industry for over 25 years. His credentials include the use of Trenchless Technologies such as Pipe-Bursting, Horizontal Directional Drilling, Slip-Lining, CIPP, Open Cut Excavation, etc. Mr. Freed has lent his expertise to aiding in writing installation and qualifications specifications, design build projects, consulting, and assessment of pre-design and emergency projects. Currently holds the Specification Chair for the International Pipe Bursting Association (a division of NASSCO). Mr. Freed has aided in design and construction of the largest pipe bursting machine in the world.



**Rene R. Garcia**

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Mr. Garcia is Engineering Supervisor in HOBAS Pipe for over 10 years. Rene received his Bachelors of Civil Engineering degree from University of Houston. He has presented many conference papers.



**Amster Howard**

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While with the U.S. Bureau of Reclamation, Amster Howard developed a table of "E prime" values used in estimating the deflection of buried flexible pipe. Now retired, Amster presents seminars for the American Society of Civil Engineers on "Pipeline Installation" and has written a book, "Pipeline Installation."



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Bijan is a board member of Iranian American Society of Engineers and Architects in Southern California and active contributor to the Southern California chapter of Construction Management Association of America. Bijan has been involved in the fiberglass pipe since 1990 and has supported projects in the Middle East, Australia and Americas.



**Dr. Tom Iseley, P.E.**

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Dr. Tom Iseley has over 40 years of experience in the planning, design, and construction of underground infrastructure systems. From 1982, he served on the faculty of Mississippi State University, Purdue University, and Louisiana Tech University. During the past 25 years, he has maintained an international leadership position in trenchless technology. In 1989, Dr. Iseley established the Trenchless Technology Center (TTC) at Louisiana Tech University. He is a founding director of the North American Society for Trenchless Technology (NASTT).



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Terry has over 30 years of engineering experience, with a strong background in the design and construction of small, medium, and large civil/environmental projects, both domestic and international. His experience also includes management and training of technical personnel in multiple offices. Terry has been a leader in the development and application of innovative trenchless technologies for the installation and rehabilitation of underground infrastructure systems. He currently serves as the National Leader for HDR's Pipeline and Trenchless Technology Practice Group.



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He is in the inspection and assessment of sewers since 1970. He was a site inspection rig Operative for the first 10 years. Also, he was a grouting operative for 4 of those years (infiltration sealing). In 1981, he went into R&D with Transport and Research Laboratories where the original coding system was developed (which was then taken over by WRc and adopted in the US under NASSCO, PACP, in 1998/99). He was involved in the first use of computers for CCTV data analysis and assessment (1982). Also, he was on a number of Technical and University committees exploring new technologies and best practices. He is author and co author of a number of publications pertinent to the Inspection and Assessment industry (including the internationally used Quality Control paper, since 1984). He was involved in the development of most of the technologies in existence today (Sonar/TISCIT/Pipe Profiling/IPGPR). He has made many presentations world-wide on Sewer Inspection and Assessment.



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Dr. Anil Misra is a Professor in the Civil, Environmental and Architectural Engineering Department of the University of Kansas, Lawrence. He was previously a Professor of Civil and Environmental Engineering at the University of Missouri-Kansas City. He received his bachelor's degree in civil engineering from the Indian Institute of Technology, and his M.S. and Ph.D. degrees from the University of Massachusetts at Amherst. Dr. Misra has a broad research interest that spans topics covering both basic and applied aspects of mechanics of materials and interfaces (particularly infrastructure, geo and bio-materials), multi-modal material characterization using high resolution techniques, and geomechanics and geotechnical engineering. He has co-edited three books; guest edited two journal special issues; authored more than 200 papers in journals, edited books and conference proceedings, and made more than 100 presentations of his research results at national and international conferences. He is active in various professional societies and journal editorial boards. He has provided consulting service to the industry on technical issues.



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Mr. Gerry Muenchmeyer is principal of Muenchmeyer Associates, LLC. A company providing consulting services to the trenchless industry and also serves as the Technical Director of NASSCO. Gerry is a Registered Civil Engineer, with over 45 years of experience, including Private Consulting Engineering, Municipal Public Service, Contracting and Product Manufacturing. Over the last 28 years, he has specialized in Trenchless Technology development, design and construction.





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Mr. Muindi has over 25 years of experience and has actively participated as project manager or project engineer in a wide range of geotechnical engineering projects including highways, bridges, transit stations, water/wastewater facilities, rockfall management and blast evaluation, and various buildings with shallow and deep foundations. Mr. Muindi's primary area of interest is in pipeline infrastructure and underground construction. His experience covers a broad range of service areas including planning, implementation, and reporting of geotechnical investigations; conceptual level planning and design studies; detailed design studies and preparation of contract documents; construction phase services including office and resident engineering. Mr. Muindi is currently serving as Chair of the ASCE Pipelines Division Committee on Trenchless Installation of Pipelines and is also a member of the Transportation Research Board having served on the soil-structure interaction Committee.



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Dr. Najafi is an assistant professor and director of the Center for Underground Infrastructure Research and Education (CUIRE) at the Department of Civil Engineering at the University of Texas at Arlington. He is the founder and editor in chief of the new ASCE Journal of Pipeline Systems. Dr. Najafi's research interests are in the area of pipelines and underground infrastructure systems construction, renewal and asset management, with emphasis on the utilization of innovative methods and trenchless technology. His research has been published widely in technical journals and professional and trade conferences. With more than 12 years of practical experience and 14 years of teaching and research experience, he has been a consultant and expert witness on many pipelines and trenchless technology projects.



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Mr. Osborn is NASSCO's Technical Director and Owner of LEO Consulting, LLC. Lynn has over 40 years of experience in the water and sewer industry, including 9 years as a Project Manager for a civil engineering consulting firm and 31 years in engineering with a large technology provider and contractor principally in the business of pipeline trenchless technology. Lynn holds bachelor's and master's degrees in civil engineering and is a registered professional engineer in Kansas and Missouri.



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Mr. Peterie has graduated from the University of Tennessee in 1990 with a B.S. in Aerospace Engineering. He has served as Engineering Manager & General Manager within the Injection Molding Industry for 8 years prior to Insituform. He was Insituform Technical Representative to North Texas and Oklahoma from 1999 to 2003. He assumed District Manager duties in 2004 and 2005 in charge of Operations. Current position is Business Development Manager covering the States of TX, OK, AR and Hawaii.

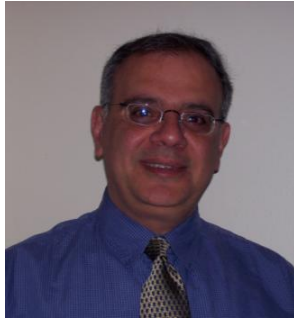


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Mr. Rahman is the Regional Sales Manager at Thompson Pipe Group. He has almost 20 years of experience in engineering, marketing and sales of pipeline materials and construction products. He began his career as an engineering consultant in the water/wastewater industry, serving in both technical and project management roles, before moving into the pipe materials

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Jason Rush has over 15 years experience in the Heavy Equipment and Trenchless Construction Industry. Jason has been involved in multiple Trenchless Construction projects including Directional Drilling, Auger Boring, Pipe Bursting and Pipe Ramming. Jason currently oversees Vermeer Sales Operations for Vermeer Texas-Louisiana and is an active member in various Trenchless Construction Industry Associations.



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Eric R. Skonberg is a registered Professional Engineer with over 25 years experience as a engineering consultant and contractor to the pipeline, telecommunications and utility industries for HDD installations. Since 1981, he has been at the forefront of HDD technology. Eric has held engineering and senior management positions with several major international HDD contractors. His construction experience includes major projects such as pipeline crossings of the Colville River on Alaska's North Slope which was awarded the ASCE "Outstanding Civil Engineering Achievement-Award of Merit". Eric also has extensive experience with smaller HDD installations for fiber optic cables and water lines. Since 2000, he has worked as an independent consultant for HDD applications world-wide.



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Dr. Lawrence (Larry) M. Slavin is presently Principal of Outside Plant Consulting Services, Inc. (OPCS). Until 2001, Larry was Director of the Network Facilities, Components and Energy group at Telcordia Technologies (formerly Bellcore), following a long career at AT&T/Lucent Bell Laboratories in the development of telecommunications distribution technology. Larry represents the telephone industry on the National Electrical Safety Code (NESC) Committee, responsible for specifying safety standards for aerial and underground telecommunications and power facilities in the United States, and serves on the Transportation Research Board AFB70 Utilities Committee. He presently serves on the Industry Advisory Board of the Center for Underground Infrastructure Research and Education.



### **Troy Stokes**

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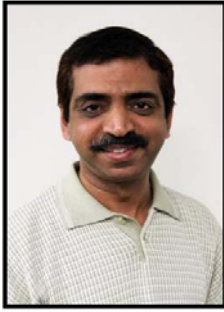
Mr. Stokes has more than 30 years of experience in the underground construction industry with the last 20 years focused on Trenchless Technology. He is responsible for strategic sales, marketing and technical initiatives for Akkerman in their North American, Central American, South American and Australian markets.



### **Prof. (Dr.) Niranjan Swarup P.E. (India)**

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Prof. (Dr.) Niranjan Swarup functions as the Director General of Indian Society for Trenchless Technology (IndSTT). Engineering Council of India has granted him the title of Professional Engineer (P.E.). He is also a formally trained arbitrator from Singapore International Arbitration Centre and Lead Quality Assessor under ICQ project of European Council. He is currently the Board Member of Engineering Council of India (ECI), International Council of Consultants (ICC) & The Council for Application of Actuarial Science in Risk Management in Construction and Allied Industries (CARM). He is a nominated member of several consultative committees like Bureau of Indian Standards (BIS), NDMC etc. He is the Member Secretary of Jawaharlal Nehru National Urban Renewal Mission (JnNURM) and National Council for Vocational Training (NCVT). He regularly contributes articles in the international trade & technical journals. He has contributed substantially for the formation of Code of Practices for installation Natural Gas Pipelines of BIS. In addition, he has developed code of Practice for several Trenchless Techniques like Directional Drilling, Horizontal Earth Boring, and Pipe Jacking etc.



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Mr. Tanwani is the vice president for Gunda Corporation in Houston, Texas. He has over 24 years of experience in the field of planning, design, construction and project management of underground utility projects, including sewer, wastewater pump stations, water lines and water treatment facilities. He has considerable experience in the construction and rehabilitation of underground utilities using trenchless technology. He has worked on numerous municipal projects that range from conceptual design to construction using high tech construction techniques including microtunneling, augering, pipe jacking and tunneling. He has presented several papers at international conferences on trenchless technology and utility construction and has authored a manual on Trenchless Construction Methods and Equipment.



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Mr. Jim Williams has 18 years of experience in engineering and project management in the civil engineering industry. He is a licensed professional engineer in 12 states and a member of NASTT. Project experience includes design and planning of hundreds of HDD crossings throughout the US and in international locations. Mr. Williams received a bachelor's degree in engineering from the University of Florida.