



Center for Underground Infrastructure Research and Education
The University of Texas at Arlington
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CUIRE Faculty – 2020

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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Josh Beakley is Vice President of Engineering for the American Concrete Pipe Association. He is a registered professional engineer in the state of Virginia. Josh received his B.S. in Civil Engineering from Rutgers University, New Brunswick, NJ and received his Master's in Geotechnical Engineering from the University of Texas at Arlington.



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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. In addition, he is active with various group and associations like ASCE, ASTM, APWA, NASTT and others. He is currently chair of ASCE Trenchless Installation of Pipelines (TIPS) committee.



Glenn M. Boyce, PhD, PE, Peng

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Glenn Boyce is a Principal with McMillen Jacobs Associates out of Walnut Creek, California. He is a supervising tunnel and geotechnical engineer with 38 years of experience. Serving as an engineer, lead engineer, project manager, or technical reviewer, Glenn has been involved in preliminary and final design, alignment and layout, geometrics, laboratory testing, cost estimating and analysis, and environmental studies, inspections, and assessments for a variety of trenchless, tunneling, and shaft projects. Glenn is a licensed professional engineer in six states, British Columbia, and Hong Kong. He is a contributing author for the ASCE 36 Microtunneling Standard, Manual of Practice 133 – Pilot Tube and Other Guided Boring Methods, and Manual of Practice 115 – Pipe Ramming (2nd Edition). In 2009, Glenn was named “Trenchless Person of the Year,” and in 2017, he received the prestigious ASCE Stephen Bechtel Pipeline Award. Glenn has overseas experience, having completed long-term assignments in Turkey (1988), Hawaii (1989), Singapore (1997), and Hong Kong (1998 and 1999).



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I am Gabriel Castelblanco a civil engineer graduate from Texas A&M University. My areas of expertise include water resources and project management. Since graduation, I have worked as an Applications Engineer for Hobas Pipe USA based in Houston, TX. HOBAS PIPE USA is the leading manufacturer and supplier of centrifugally cast, fiberglass reinforced, polymer mortar (CCFRPM) pipe systems. Hobas has manufactured over 8 million feet of pipe in North America alone. I have led and/or collaborated in large scale projects that included our largest projects in our short history as well as designed pipe and complex fittings for all types of installations including direct bury, tunnel, jacking and sliplining.



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Mr. Cox is a graduate of the University of Tennessee at Knoxville in Civil Engineering. Allen’s previous professional experience includes employment with Texaco, Inc., the US Army Corps of Engineers (Memphis Branch), a Tennessee based Construction Company.



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Daniel Currence holds Bachelors and Master's degree in Civil Engineering from the University of Missouri-Columbia. He began his career in the U.S. Navy Civil Engineers Corps and has experiences as an environmental consulting engineer while working for Parsons Corporation. Dan has 22 years of direct involvement with the corrugated HDPE pipe industry. He joined the Plastics Pipe Institute in (PPI) 2013 where he is currently the Director of Engineering for the Drainage Division of PPI.



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Mark Gallucci has had a 29-year career in the Underground construction industry. Prior to joining Digital Control Incorporated, Mark spent seven years in the Field Service department of a prominent tunnel boring machine manufacturer.



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Ramsey T. Hemaidan has over 24 years of business development experience in 16 countries spanning multiple industries and departments. He has been working in the field of large and small diameter pipe condition assessment since 2005. Ramsey is a member of AWWA Water Loss Control Committee, AWWA M36 and Real Losses Sub-Committees. Ramsey has consulted with more than 100 municipalities to initiate or enhance their condition assessment program.



Dr. Tom Iseley, Ph.D., 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 27 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). Iseley also served for three years as the chairperson of the National Utility Contractors Association's (NUCA) Trenchless Technology Committee. Dr. Iseley has been elected to the Class of 2016 of the National Academy of Construction (NAC). In April 2015, Iseley was selected as a Distinguished Member of the American Society of Civil Engineers (ASCE) for his eminence in engineering, becoming just one of only 637 Distinguished Members ever selected by the ASCE. He was also selected a 2016 UCTA MVP (Most Valuable Professional) by the Underground Construction Technology Association (UCTA) and Underground Construction magazine. Dr. Iseley will be inducted into the 2017 NASTT Hall of Fame.



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Rich is the Director of Engineering at Northwest Pipe Company. He received his BSCE from the Univ. of Minnesota and is a Registered Professional Engineer. Rich has over 35 years of application, design and construction experience in the steel pipe industry. Rich is a member of the AWWA Steel Pipe Committee and is Secretary of the AWWA Steel Water Pipe Technical Advisory Committee. Rich is an active member of the National Association of Corrosion Engineers (NACE) having served on various technical committees including SP0169. In addition, he is a NACE Corrosion Technologist, a Certified Coating Inspector Level 2 and a Cathodic Protection Tester. Rich has authored and presented a number of technical papers @ ASCE Pipeline, National No-Dig Conference and many state level AWWA Conferences.



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Mr. Miller has served as a project manager and technical specialist responsible for the execution and coordination of large, complex field investigation programs on a broad variety of geotechnical engineering and geo-environmental projects, including linear energy corridors, infrastructure improvements, deep tunnels, and foundation construction for real estate development.



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Mr. Muenchmeyer is principal of Muenchmeyer Associates, LLC. A company providing consulting services to the trenchless industry and 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 a member of the Transportation Research Board having served on the soil-structure interaction Committee.



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Richard Nichols is a pipeline design engineer with experience with pressure pipe design, manufacturing, and installation. He graduated with a B.S. in civil engineering from the University of Texas at Arlington in 2007 and received his MBA from the University of Texas at Dallas in 2017. He worked for over 10 years with a large diameter pressure pipe manufacturer. He is currently technical director for the Uni-Bell PVC Pipe Association and serves as the central regional engineer working to support utilities, consultants, and contractors with using PVC pipe.



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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 bachelors and master's degrees in civil engineering and is a registered professional engineer in Kansas and Missouri.



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Jeff Puckett is the President of J. D. Hair & Associates, Inc., a consulting firm in Tulsa, Oklahoma that occupies a leadership position in the specialized field of horizontal directional drilling. In his twenty-six years with JDH&A, Jeff has provided project engineering and construction quality assurance on hundreds of HDD pipeline installations, including some of the most challenging HDD crossings ever completed. He has also played a key role in the development of several reference publications addressing various aspects of HDD design and construction. Jeff has a Bachelor of Science in Mechanical Engineering from the University of Oklahoma and is a licensed Professional Engineer in fifteen states.



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Camille is Director of Engineering for the Plastics Pipe Institute. Camille holds a BS and an MS in Civil Engineering from the University of Tennessee and Rensselaer Polytechnic Institute. He is also a registered professional engineer in the State of New York. Camille is the committee secretary for the AWWA Polyolefin Committee and is a member of ASTM and ASCE. Camille has been with the plastics industry since 2003.



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Dr. Jwala Sharma is currently employed at Mears Group, Inc. as Director of Engineering. Dr. Sharma graduated with PhD degree in Civil Engineering from the University of Texas at Arlington in May 2013. During his time at UT Arlington, he participated in and led several research projects involving trenchless as well as buried pipeline applications. Dr. Sharma stepped into the trenchless industry in 2012 working for Laney Directional Drilling where he designed and managed several HDD and Direct Pipe crossings. In 2016, he joined Mears Group Inc. At Mears Group Inc, Dr. Sharma has designed and managed some unique projects, some of which will be presented during this presentation.



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Eric R. Skonberg is a registered Professional Engineer with over 25 years' experience as an engineering consultant and contractor to the pipeline, telecommunications and utility industries for HDD installations. He received his Bachelor of Science in Mechanical Engineering from the University of Kentucky in 1978.

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.



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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.



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Mr. Strater brings 23 years of experience in geotechnical engineering and consulting, and forensic evaluations. His specialties include rock and soil tunnels, trenchless technologies, and soil and rock slope evaluation and design.



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Jim Williams is a senior consultant with Brierley Associates in Austin, Texas. He has 24 years of experience in the civil and trenchless engineering industry, focusing on horizontal directional drilling. Project experience includes HDD crossing projects throughout the US and international locations. Mr. Williams received a bachelor's degree in engineering from the University of Florida.

CUIRE Faculty – Previous Years



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Sam Arnaout is the Senior Principal Engineer. He is active with various group and associations like ASCE, AWWA, and ASTM 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, Pre-stressed Concrete Cylinder Pipe, Reinforced Concrete Pipe, Stainless Steel Pipe, Ductile Iron Pipe, Fiberglass Reinforced Plastic Pipe and High Density Polyethylene Pipe.



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.



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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 Tunneling 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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Siggif 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.



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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.



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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.



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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.



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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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Norman is a Principal in McMillen Jacobs Associates' trenchless practice group in Walnut Creek, California, office. Norman is responsible for the engineering design of trenchless installations that include microtunneling, HDD, conventional pipe jacking and auger bore installations, pilot tube guided boring, pilot tube guided auger boring, pilot tube-guided pipe ramming, and the AXIS system.



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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 America.



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Tom has over 35 years in PVC, infrastructure and water related projects. The past 16 years has been with Underground Solutions, Inc. where Tom is the Vice President of Engineering & Technology. Tom led the development of Fusible PVC® to commercialization including formulation and the fusion process. In addition, he has also led development of the necessary tools for the training, handling, and installation of Fusible PVC® in both trenchless and conventional methods.



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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.



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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 worldwide on Sewer Inspection and Assessment.



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Josh has been in the infrastructure industry for the last eleven years. He has been an equipment rep and sales rep for more than twenty different water and waste water product lines. His experience includes I&I assessment, abatement and rehabilitation and water system repair, replacement or rehabilitation. Covering such a broad spectrum of products has given Josh a good understanding of Water and Waste Water systems design, operation and management. Presently Josh is a Midwest Business Development Manager for Ace Pipe Cleaning.



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Austin Miller began working at J.D. Hair & Associates in 2014 after graduating from Oklahoma State University with a Bachelor's of Science in Civil Engineering. While working at JDH&A, Austin Miller was involved in the design and analysis of hundreds of crossings in addition to monitoring the construction of over 200 crossings. During my time at JDH&A, he was involved in some of the most complex HDD projects, recording several crossings over 10,000 feet. In addition to HDD experience, Austin Miller has been a part of multiple Direct Pipe crossings, both in the design phase and construction phase.



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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 geo-mechanics 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. 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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Dorairaja Raghu is Professor Emeritus, Civil Engineering department at the New Jersey Institute of Technology. He has relocated to the DFW area. His primary areas of interest are Geotechnical and Geo-environmental engineering. Recently, he started working in the area of pipes in expansive soils and has organized and moderated a session and made a presentation on this topic as a part of the 2019 NASTT conference held at UTA campus. Raghu has held several offices in American Society of Civil Engineers (ASCE) and New Jersey Society of Professional Engineers (NJSPE), such as Vice President of New Jersey Section and member of Continuing Education Committee of NJSPE. He has several years of teaching, research and consulting experience. Raghu is a licensed professional engineer in the State of New Jersey. He has won several awards such as Engineer of the Year from North Jersey branch of ASCE, Distinguished Service Award from NJSPE and Professor of the Year award from New Jersey Institute of Technology.



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He is a Senior Project Manager in the Public Works Dept. of BGE, Inc. (previously Brown & Gay Engineers). Prior to joining BGE, Shah spent 20 years in the pipe materials industry, where he held various roles in applications engineering, new product development, technical marketing, and sales management. His expertise includes pipe-soil interaction, flexible and rigid pipe design, installation and construction, trenchless technology, and large-diameter transmission pipeline rehabilitation.



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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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William E. Shook is president and founder of AP/M PERMAFORM, a world-wide provider of technologies, products and equipment for trenchless renewal and corrosion protection with headquarters in Johnston, Iowa. Bill has served thirty-five years in the underground utility and trenchless construction industry.

He is past president of the National Association of Sewer Service Companies (NASSCO) and serves on the Board of Directors of the Buried Asset Management Institute-International and the Mid-West Society of Trenchless Technology. He is an active member of the American Society of Civil Engineers (ASCE), American Water Works Association (AWWA), the Water Environmental Federation (WEF).



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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.



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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..



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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, auguring, and 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.