

Advances in Underground Pipeline Design, Construction and Management

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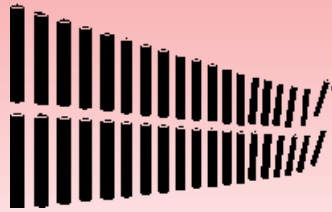
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**Totally New Two-Day
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renowned expert
Dr. Jey K. Jeyapalan, P.E**

**Practical seminar for engineers, owners, utilities, regulatory officials, contractors,
manufacturers, and trade associations to keep abreast of the latest technology**

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Seminar benefits

Your attendance will help you...

- Learn the new International Advances in Asset Management, Pipeline Materials, Design, Installation, Rehabilitation, and Trenchless Construction Methods.
- Learn the most common causes of serious pipeline failures, over 300,000 water-line breaks, in excess of 40,000 major sewage spills causing more than 3 million Americans become seriously ill and loss of life this year alone.
- Learn about a national crisis that may be looming due to errors and omissions and may have little to do with an aging infrastructure.
- Learn all about defective engineering specifications that cost hundreds of millions of dollars, delays, liquidated damages and loss of reputation every year.
- Learn how to design, install and share rights of way and existing infrastructure among multiple functions, pipes and cables.
- How cost efficient are your pipe repair decisions? Find out how to obtain substantial savings by learning how to repair/ rehabilitate pipe systems, how to write quality specifications protecting yourselves without being influenced by the various pipe interest groups.
- Learn what the 30 day rule is for pipe projects and how to prepare yourself better to avoid claims and disputes.
- Get the most up-to-date independent engineering guidance on steel, plastic, concrete, ductile iron and clay pipe materials and how to complete a cost effective design for a buried pipe system.
- Examine recent case histories of pipe failures and the need for better understanding of pipe-soil system design and installation procedures to avoid failures and claims.
- Find out about the applicability, usefulness and limitations of standards, codes, and computer aided methods.
- Learn how design, installation and pipe performance impact each other from the same speaker with hands-on knowledge; you may bring specific problems to the seminar for discussion of possible solutions.
- Cut overall design, installation and operation costs by learning to use pipe-soil interaction principles on buried pipe projects.
- Learn how and why projects could fail when you use erroneous E' values from the AWWA, ASTM, and ASCE standards and the Bureau of Reclamation.
- Learn what correct Modulus of Soil Reaction, E' values are; how to obtain and use these properly in buried pipe design based on testing and sound principles of soil-pipe interaction; also vary from open-cut to trenchless construction.
- Find out the need for uncompacted pipe bedding, soil-cement slurry for pipe embedment and backfill, when to use which bedding.
- Develop pipe-soil system specifications for pipe, bedding, embedment and backfill, installation, and inspection for water, sewer, drainage, gas, process applications.
- Learn about longitudinal effects and pressure pipe design requirements.
- Do hands-on design calculations in group workshop sessions.

Who should attend

Civil, mechanical and consulting engineers serving the water, wastewater, oil, gas, waste, chemical industries; Geotechnical engineers; Construction managers; Project managers; Pipeline inspectors; Contractors in utilities; Engineers managing utilities; Public works directors; Trade associations; Manufacturers of pipe and related products; Trenchless technology companies; State and federal agencies; Municipalities and utilities; Owners of pipeline assets; Attorneys in the construction industry; Stock analysts, fund managers, private equity firms in infrastructure sector; Market strategists on competitive means and methods; University professors; Specification writers; Planners; Procurement officials.

About the seminar

The design engineer selects the most appropriate pipe material and construction method based on cost effectiveness, service life, structural strength, abrasion and corrosion resistance, ease of handling, installation and availability. Each pipe material and construction method has its share in the marketplace. This is the only seminar in North America that presents engineering data, detailed design procedures, construction methods and asset management on many pipe materials and trench less technology for new construction and rehabilitation. The primary objective of this practical seminar is to familiarize participants with state-of-the-art on pipe properties, standards for pipe materials, design, and installation by open-cut and trenchless methods, specifications, structural considerations, and day-to-day engineering design and pipe selection. You will participate in a hands-on workshop session where the design features of typical pipelines using the material presented throughout this seminar will be discussed.

Seminar leader

Dr. Jeyapalan graduated from the University of Sri Lanka with first class honors in Civil Engineering; from Monash University with a master's degree in Applied Mathematics; and from the University of California at Berkeley with masters and doctoral degrees in geotechnical engineering with minors in structural engineering and engineering mechanics. He also was an engineering professor in USA and Germany. He is a renowned global water, wastewater, desalination, oil and gas pipeline industry expert with over 35 years of experience in pipeline design, market positioning of new technologies, construction methods, trenchless technology, pipeline integrity assessment and rehabilitation, telecommunications, underground utilities and structures, hydropower penstocks and tunnels up to 14.6 m. in diameter, industry standards, codes and regulations, and sharing rights-of-way of existing pipelines to house optical fiber networks and other cables. Dr. Jeyapalan has worked as an expert witness on numerous lawsuits and claims for failures of pipelines made of clay, concrete, steel, ductile iron, plastics, and composites and underground cables. Dr. Jeyapalan has completed over 300 projects in Algeria, Australia, Austria, Canada, Chile, China, Egypt, Germany, Iceland, Italy, Japan, Korea, Oman, Pakistan, the Philippines, Saudi Arabia, Singapore, Spain, Sweden, Switzerland, the United Arab Emirates, the United Kingdom, and the United States. Dr. Jeyapalan's writings on pipelines, cables, sharing rights of way, and underground structures are used widely in engineering practice. He chaired the Executive Committee of the Pipeline Division of the American Society of Civil Engineers (ASCE) and the 1st and 2nd International Conferences on Advances in Underground Pipeline Engineering sponsored by the ASCE. Dr. Jeyapalan was the founding chair of the ASTM International Committee F-36, writing global standards on the last mile technologies, FTTX, underground utilities, cables, asset management, etc. He serves on numerous other pipe and cable related standard writing bodies, technical committees and working groups within ASTM, AWWA, ASCE, Cigre', and IEEE. He is the author of over 200 papers and has taught over 100 seminars on underground pipelines and cables to over 5,000 worldwide. He is a registered professional engineer.

Seminar outline

Design, Installation and Pipe Performance:

Inter-Dependence

- Pipe-Soil Interaction Principles
- Design By Codes and Standards
- Load Theories
- Sample Design Problems
- Factory Inspection and Testing of Pipes
- Post Installation Testing
 - Deflection Testing for Flexible Pipe
 - Video Testing for Rigid Pipe
 - Standards and Performance Limits for Post Installation Testing

Geotechnical Design Parameters

- What is wrong with Bureau of Reclamation's E'
- Proper Geotechnical Baseline Report
- How to Establish Site-Specific E' Values That Vary Along the Alignment
- AASHTO, ASTM, Unified Soil Classifications
 - Excel Sheet for Selection of Site Specific E' Values

Manufacturing, Properties and Design of Following Pipes

- Plastic Pipes
- Corrugated Metal Pipes
- Polyester Concrete Pipe
- Fiberglass Pipes
- Concrete Pipes
- Ductile Iron Pipes
- Steel Pipes
- Clay Pipes
- Alternate Pipe Materials for Pipeline Projects
- Standards by ASTM, AWWA, AISI, AASHTO, ASCE, DIN, ISO, CSA, ASA
 - Trench Design
 - Groundwater Control
 - Foundation and Bedding
 - Embedment
 - Compaction

Unified Design of Buried Pipes

- Handling stiffness check
- Deflection check
- Pressure capacity check
- Combined stress and strain check
- Buckling capacity check
- Ring compression check
 - Excel Sheet for Design of Gravity FRP Pipe
 - Excel Sheet for Design of Pressure HDPE Pipe

Australian Design of Buried Pipes

German Design of Buried Pipes

- Excel Sheet for German Design of Gravity Concrete Pipe

Design Checks on Prestressed Concrete Cylinder Pipes

- Excel Sheet for Checking PCCP for Compliance with AWWA C304

Unified Approach to Thrust Restraint Design

Trenchless Technology

Pipe Rehabilitation and Market Potential

Coatings and Linings Selection

Quality Assurance/Quality Control (QA/QC) Program

- Sample Specifications for Gravity FRP Pipe
- Sample Specifications for Gravity HDPE Pipe
- Sample Specifications for Bedding and Backfill
- Sample Specifications for Polymer Concrete Pipe
- New AASHTO NTPEP Program

Remaining Life for Pipeline Asset Management

- Excel Sheet for Checking Ductile Iron Pipe in GASB 34 Assessment
- Weibull and Normal PDF Reliability Analyses
- Load Ratings

Sharing of Rights of Way and Existing Infrastructure for Pipes and Cables

Future Outlook

What others say

"Dr. Jey is a world class civil engineer, writer, speaker, and a tireless teacher, with an amazing grasp on common sense approaches to problem solving. I was amazed by the numerous practical lessons recorded in this book and given my life as a contractor on underground pipelines for over 40 years, I am certain this book will become the pipeline practitioner's bible." Michael C. Welch, President, Chief Executive Officer and the Chairman of the Board, BRB Contractors, Inc., Topeka, Kansas, USA.

What other engineers and contractors have said about the contents of this book when it was offered as a seminar around the world in hotels and in the conference rooms of leading utilities:

"Highly recommended for anyone in the water, sewer, gas, pipe industry, or government." Tanya Wiley, City of Portland, OR

"Excellent look at trenchless methods and pipe products." Mike Flick, Wastewater Dept., Denver, CO

"Especially useful in evaluating new technologies for their pluses and minuses, which salespersons don't present." Tom Caufield, City of Portland, OR

"Your energy and enthusiasm toward pipe materials and new installation technologies is very contagious." Doug Knight, Rutherford & Chekene, San Francisco, CA

"Great seminar on E', microtunneling and pipeline rehabilitation technologies."

John Hewitt, Lockwood, Andrews & Newnam, Houston, TX

"The best seminar I have taken on pipeline materials, design, and methods."

Abdullah Al-Amry, Saline Water Corporation, Saudi Arabia

"This seminar is an excellent learning experience." Jun Tohda, City of Osaka, Japan

"Dr. Jeyapalan presents a lot of very useful information on Pipe technologies in a short time." Hans Ueker, LGA, Munich, Germany

"An excellent way to stay ahead of the trends in the industry." Randy Randolph, Civil Engineer, Bureau 0 Reclamation, Phoenix, AZ

"I found the comparison of U.S. design methods with German, Japanese and Australian methods very interesting."

John Henkels, Construction Engineer, Krieger & Stewart, Inc., Riverside, CA

"Very good seminar with a unique approach that disseminates a lot of information in an intensive course." Charles Perkiss of CalTrans, Sacramento, CA

"It's nice to listen to someone who knows the relationships of the various elements that affect pipe behavior, as well as having an opinion as to why commonly accepted standards or formulae may be wrong or in need of modification."

Robert Kelley of Winzler & Kelley Engineers, San Francisco, CA

"Dr. Jeyapalan is the expert in pipeline design, construction and management. I have been involved with pipeline design for 35 years and he opened my eyes to new facts and practices." John Barnes of Robert Bein, William Frost & Associates, Irvine, CA

"Enlightening regarding the technical adequacy of ASTM, AASHTO standards and about potential trends and pitfalls of new materials and standards." Lars Henderson, Professional Engineer CH2M Hill, Bellevue, WA

"To get information on all available types of pipe materials in one place is extremely helpful. It was definitely worth my time." Mike Hickman, Project Engineer, Sweet Edwards-Emcon, Inc., Bothell, WA

"Excellent seminar; very helpful both on current and emerging technologies." Anthony Curto, Springfield Municipality, MA

Registration Information

Early registration is recommended by returning the form below with a check. Attendees can register and pay using credits cards on our website: www.civic-enterprises.com. Enrollment is limited. All registrations will be confirmed. If you have not received confirmation prior to the meeting, please call 860-354-7299 or write gowri05@earthlink.net to be sure we have received your registration.

Time: 9:00 to 4:00 p.m. first day, 9:00 to 3:00 p.m. second day. Registration and refreshments at 8:30 a.m. and throughout the day.

Fees: Registration fee received by August 1, 2008: \$1295. Registration fee received on/after August 2, 2008: \$1395. Fees include attendance at the seminar, lunch, refreshments, and one copy of the 400 page authoritative book titled "Advances in Underground Pipeline Design, Construction and Management," by the speaker.

Certificates: Each participant in attendance for the entire seminar will receive a certificate of completion awarding CEU or PDH. One CEU or PDH equals ten contact hours of instruction.

Team Registration: Each regular enrollment fee will be reduced by 10 % if your firm registers three or more people at the same time, and paid on schedule. Cancellations made less than 15 working days prior to the seminar are subject to a \$100 cancellation fee. No refunds within 7 business days and after seminar date. If insufficient enrollment necessitates cancelling the seminar, all tuition will be refunded.

Tax deduction: Treasury Regulation 1.162-5 permits an income deduction for educational expenses including fees, travel, meals and lodging. However, the Tax Reform Act of 1986 limits deductions for business meals and for unreimbursed travel by employees. Tax I.D. is available upon request. Hotel accommodations are not included in your registration fee. Please contact the hotel directly. When you call the hotel for reservations, remember to mention "pipeline seminars by Civic Enterprises LLC," to get the special rate.

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281-449-2311

August 18-19
Spring Hill Suites
Denver Airport
18350 East 68th Avenue
Denver, CO 80249
303-371-9400

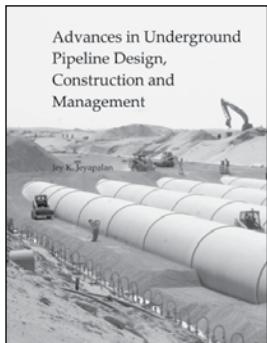
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1779 South Amphlett Blvd
San Mateo, CA
650-653-6000

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7550 Augusta National Drive
Orlando, FL
407 240-5555

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Residence Inn
Kansas City Airport
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1553 N Boulder Hwy
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