

Master of Engineering Course for Spring 2008

CE320-11:

Advances in Underground Pipeline Design, Construction and Management

Instructor: Jey K. Jeyapalan, P.E., Ph.D.  
Dr. Jeyapalan & Associates, New Milford, CT

Time: Tuesdays, 5:00 – 7:30

Location: Fuss & O'Neill, 146 Hartford Road, Manchester, CT

Text: “Advances in Underground Pipeline Design, Construction and Management” by Jey K. Jeyapalan

Description:

The primary goal of this new course is to familiarize owners, utilities, regulatory officials, pipe manufacturers, pipe trade associations, engineers and contractors interested in pipeline design, construction and asset management with the recent body of knowledge and to alert them to common problems. It is not easy to select the most suitable type of pipe for a particular project because of the following reasons:

- The lack of formal classes in underground pipeline design, construction and management in any of the world's universities.
- Inadequate understanding of the pipe - soil interaction principles.
- The wide ranging behavior of pipe materials.
- Claims and counterclaims of pipe manufacturers.
- Inconsistent design standards, sometimes by the same governing body, for different pipe materials.
- Political pressure brought on the engineer by pipe interest groups.

This course is arranged in the order in which the instructor taught the material around the world during 1984-97 in hotels and in the conference rooms of leading utilities to more than 5,000 owners, utilities, regulatory officials, pipe manufacturers, pipe trade associations, engineers and contractors. To protect the integrity of the content, the course is being offered truly independently of any vendor participation or sponsorship. This was the only course of this type in the world providing information on underground pipelines, year after year, and often, the same engineer attending it more than once still gained enormous value, due to the evolving nature of the content. Unlike seminars by pipe interest groups where what you see on the screen is often printed in their seminar notes, here in this course the instructor has included material which will require the readers to think on their own, and rely on their own engineering judgment to question what they have been doing for years and what they have been told by others. This course will cover 15 chapters and 10 appendices of excel sheets of pipe designs and sample full length technical specifications.

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- Deadline for registration is January 14, 2008
  - Please contact Nancy Coogan for registration information  
Phone: 860-486-0883, Email: [ncoogan@engr.uconn.edu](mailto:ncoogan@engr.uconn.edu)
  - Spring semester classes begin on January 22, 2008
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