

The 2008 Pipe Stress Analysis Per ASME B31.3 Process Piping Code Seminar

Featuring: **Dr. Quy Truong**
ASME Fellow

February 20-22, 2008

LOCATION

The Metropolitan Conference Center
333 4th Avenue SW, Calgary Alberta

PROGRAM SCHEDULE

Wednesday February 20, 2008 8:30am to 5:00pm

PROGRAM INTRODUCTION

INTRODUCTION TO ASME B31 PRESSURE PIPING CODES

- Development of ASME B31 Piping Codes (Design Philosophy, Intents, Contents, Coverages, Safeguards, etc.)
- ASME B31.3 Process Piping and Other Codes
- Piping Code Impact on Design

ASME B31.3 RULES FOR PIPING DESIGN & STRESS ANALYSIS

- Design Criteria and Conditions, Types of Loadings and Stresses
- Analysis Requirements for Sustained, Thermal Expansion, and Occasional Loads

Thursday February 21, 2008 8:30am to 5:00pm

METHODS OF PIPE STRESS ANALYSIS

- Approximate Methods, Elastic Center and Truong Methods
- Flexibility and Stiffness Methods
- Computer Modeling Techniques
- Non-Linear Restraints, Conversion Problems

PIPING LAYOUT AND PIPE SUPPORTS

- Piping Connected to Stationary and Rotating (Strain Sensitive) Equipment; Yard Piping
- Types of Supports, Spring Hangers, Allowable Pipe Span Calculations and Allowable Loads at Supports

ALLOWABLE LOADS AT EQUIPMENT NOZZLES

- Equipment Types and Reasons for Load Limits
- Industry Standards (API-610,617,618, NEMA SM-23), and practical considerations

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Friday February 22, 2008 8:30am to 5:00pm

ASME FLANGES AND SPECIAL CALCULATIONS

- Design Calculations and Selections of ASME Part A Flanges .
- Precautions and Practical Considerations
- Analysis of Refractory Piping Systems.
- Bimetallic Joints Stress Calculations.

ASME HIGH PRESSURE CLAMP CONNECTIONS

- Design of ASME High Pressure Clamp Connections
- Precautions and Practical Considerations

PIPING VIBRATIONS

- Dynamic Phenomena in Reciprocating Compressor and Pump Piping Systems
- Extent of Piping Subjected to Vibration
- Required Natural Frequency of Piping. Frequency Calculation
- Acoustic Pulsation Study and Mechanical Studies of the Piping Systems and the Compressor Manifold
- Pipe Supports for Vibration. Supports for Pulsation Dampeners

REGISTRATION AND CONTENT INQUIRIES

Dr. Quy Truong | 832.392.1113 | drquytruong@yahoo.com

ABOUT THE SPEAKER

Dr. Quy Truong received his B.S. Degree in Civil Engineering from the University of New Hampshire and his Master's and Ph.D. Degree in structural mechanics from Vanderbilt University. He had four years of college teaching experience and 32 years of practical engineering experience in pipe stress analysis of piping systems in petrochemical refinery installations.

Dr. Truong has conducted this seminar over 30 times for the South Texas Section of **ASME** to more than 1,600 engineers in Region X. He has taught many in-house training classes for major engineering and construction firms and conducted seminars at a number of universities and consulting firms worldwide to more than 900 engineers and designers in the art of pipe stress engineering

Dr. Truong is a Vice President of Refinery Technology, Inc., Houston, Texas, and a registered professional engineer in the United States. He is a member of the ASME B31.3 Process Piping Code Committee, and the ASME B31 Mechanical Design Technical Committee (1979-2002). He is an **ASME Fellow**.

THIS COURSE QUALIFIES FOR 22.5 PDH CREDITS!

General Info:

Kelly J. Gerry | 403.303.2374 | kgerry@caltechgroup.ca

**THE 2008 PIPE STRESS ANALYSIS PER ASME
B31.3 PROCESS PIPING CODE SEMINAR**

February 20-22, 2008
Metropolitan Conference Center
333 4th Avenue SW, Calgary, Alberta

CONTACT Dr. Quy Truong 832- 392-1113, email: drquytruong@yahoo.com

REGISTRATION FORM

Name: _____ Company: _____

Street Address: _____

City, State & Zip: _____

Phone: _____ Cell Phone: _____

Fax: _____ Email: _____

Credit Card Master Card or Visa Card # _____ Expiration _____

Course fee is US \$1050.00 per participant and prepayment is required.

Full refund will be made for cancellation received on or before January 31, 2008. Cancellation received after January 31, 2008 will be subjected to a \$150.00 cancellation fee. No refund will be made for cancellation after February 9, 2008.

Please send form and make check payable to:

Dr. Quy Truong
12456 Meadow Lake Dr.
Houston, Texas 77077-5822

Information on nearby hotels will be provided upon request.

Registration deadline is January 31, 2008.