UNDERSTANDING PIPELINE BATCH SCHEDULING, OPTIMIZATION & TANK FARM MANAGEMENT
A 1 day course to assist novice and experienced pipeline personnel how to be more efficient, safer and save money.

Why: Communications between marketing, operations and facilities at the end points of every pipeline is essential to minimize costs while at the same time improving customer service. The pipeline control center cannot efficiently and safely operate the pipeline without prompt and clear communications. Understanding how product schedules are generated and can be automated, how batches are tracked as an essential input to any pipeline leak detection system and understanding how to optimize (minimize) power use from Scheduling and/or Drag Reducing Agents (DRAs) is why you need to attend.

The focus of the training/seminar will be on the unique characteristics of each products pipeline and will provide an essential overview of product pipeline scheduling, batch training and power optimization. This course will introduce you to the challenges that affect your pipeline. After completing this course you will have an understanding of how to better communicate with whom and why. You will have an understanding of the special problems resulting from customer change requests and the ripple on effects throughout the pipeline “system”. Most importantly you will have an understanding of how the problems created by poor communications can be addressed.

The course is designed for:

- Pipeline Operations, Facilities, Marketing & Logistics personnel
- Pipeline Compliance and Safety personnel

Instructors:
PETER N. LINDEN, P.E.-SENIOR PIPELINE ENGINEER
Mr. Linden has over 30 years of diversified engineering experience combined with strong technical skills in pipeline design and operations optimization including pipeline modeling to determine how to best improve the throughput of planned and existing pipelines. This approach utilizes simulations of pipeline operations to determine the best solution. This minimizes cost and delivers the best solution to achieve a desired flow capacity.

Mr. Linden is experienced in project management and has taken a lead position in the planning and layout of pipeline facilities, storage facilities and pump/compressor stations.

EDUCATION
BS Electrical Engineering, Louisiana State University

KEITH FERGUSON
Mr. Ferguson co-founded System Software Incorporated in 1975 and subsequently pioneered the first pipeline scheduling software for the oil and gas industry. He is a recognized authority on pipeline scheduling systems with 30 years' experience in the design and implementation of scheduling software. Past experience includes developing pipeline SCADA systems for both domestic and foreign oil companies including development of the first set of safety features for pipeline SCADA systems.

Where: Hotel Universel Montreal
5000 Rue Sherbrooke Est, H1V 1A1 Montréal, Quebec Canada
(514) 253-3365 or 1-800-567-0223

Course Duration: 1 day – 8:15-4:30

When: April 18, 2012

Price: $695 per person
Class Outline

Pipeline Overview –

USA Pipeline Statistics
- Barrels Moved
- Transportation costs
- Employee costs
- Accidents
- Pipeline configurations
- Terminals

Scheduling
- What it does and why it's important
- Scheduling errors and consequences
- Benefits of scheduling
- Integrated scheduling
- Terminal Tank Management

Pipeline Power Utilization
- Power consumption
- Pumps
- Valves friction

Pumps and Pump Control Valves
- Pump power utilization
- Best Efficiency points
- Variable speed pumps
- What do pump control valves do?
- Can pump control valves waste power?

Pipeline Frictional Pressure Loss
- Basic pressure drop fundamentals

Drag Reduction Agents
- What is DRA?
- What does DRA do and how is it utilized?
- Can DRA save operations costs?

Utility Contracts
- Can they be negotiated?
- Might they have penalties?
- Peak versus Non-Peak Rates

Operations Management
- If an Optimum Schedule and unit selection is decided upon, is there Operations Management in place?
- To insure it is adhered to?

Pipeline Optimization
- Is there an integrated Pipeline Optimization System?

Please complete the attached form and fax to TTI at 713-630-0560

Course Cost: $695 per person
Course Date: April 18, 2012

Name

Company

Address

Address

City, State, ZIP

Country

Phone/Mobile

Fax

E-mail

Payment by Credit Card
Circle One: VISA MasterCard AMEX

CC Number

Expiration Date

Signature*

* By signing above I commit to paying the course fee when invoiced

Terms and Conditions: One registration is required per person. Upon receipt of your above registration, an invoice will be generated for payment. Payment is due 30 days from receipt of invoice.

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