PIPELINE SIMULATION INTEREST GROUP
OCTOBER 17-19, 2001
AGENDA

WEDNESDAY, OCTOBER 17

8:00 - 1:30 PM **Vendor Exhibits Open**

2:00 - 3:20 PM **Two Concurrent Workshops Running in Two Shifts**.
&
3:40 - 5:00 PM **Workshop #1 – The Interface Between Planning and Marketing** **01W1**
Coordinators: Paul Towne – El Paso corp.
What are the benefits that marketing can derive from the planning tool? How should planning rely on marketing information?

Workshop #2 – Data Model Standards review **01W2**
Coordinators: Bill Chmilar – Transcanada and others
A review of the work to date will be presented and input from the audience will be solicited.

5:00 – 6:00 PM **Vendor Exhibits Open**
6:00 - 7:30 PM **Reception**

THURSDAY, OCTOBER 18

7:30 - 8:30 AM **Registration**

8:30 - 8:45 AM **Preliminaries**

8:45 - 9:30 AM **Automating Predictive Model Runs for Gas Control** **0101**
Authors: Michael E. Dew – Duke Energy
Michael L. Wheeler – Duke Energy
Ray S. Whaley – Bethel consulting
The authors have developed a set of heuristic rules which automatically control the simulation of facilities to mimic the manner in which the dispatchers operate the system.

9:30 - 10:00 AM **Vendor Commercial Session**

10:00 - 10:30 AM **Break**

10:30 - 11:15 AM **Investigating Real-world Applications of Transient Optimization** **0102**
Authors: Ulli Pietsch – Enbridge Pipelines
Henry Rachford – Stoner Associates
Richard Carter – Stoner Associates
The paper describes the transient optimization efforts on the Vector pipeline.

11:15 - Noon **Thermal billing using Calorific Values Provided by Pipeline Simulation** **0103**

Authors: Bernd Protze – Verbundnetz Gas (Germany)
Gunter Wagner – Liwacom (Germany)

The use of pipeline modeling software instead of direct calorific measurements for thermal billing is described.

12:00 - 1:15 PM **Lunch**

1:15 - 2:00 PM **A Program Development for Unsteady Gas Flow Analysis in Complex Pipe Networks** **0104**

Author: Seungyong Chang – Korea Gas Corp

A new transient flow program is used to model a pipeline system being supplied by two LNG terminals.

2:00 - 2:45 PM **Natural Gas Power Generation – Basic Pipeline Design Requirements** **0005**

Authors: Oscar Alvarez – Transportadora de Gas del Norte (Arg.)
Carlos Casares – Tecpetrol (Argentina)
Hugo Carranza – TotalFinaElf Gas Transmission (Arg.)

The gas load curve today is more a function of the electrical dispatching rules than a consequence of the residential consumption behavior. The authors explore this situation.

2:45 - 3:05 PM **Chairman's Session**

3:05 - 3:30 PM **Break**

3:30 - 4:15 PM **The Importance of Thermodynamic Properties in Accurately Predicting Pipeline Operations** **0106**

Authors: R.N. Maddox – Oklahoma State University
M. Moshfeghian – Shiraz University (Iran)
A.J. Johannes – Oklahoma State University

The paper describes a pipeline problem in Iran where the pipeline capacity decreased, and the measures used to correct the problem.

4:15 - 5:00 PM **Implementation of a Gas Load Forecaster at Williams Gas Pipeline** **0107**

Authors: Dan Logue – Energy Solutions International
Paul Lamb – Williams Gas Pipeline - Transco

The authors present an overview of a load forecast system that has been implemented and the challenges that were faced.

6:00 - 7:30 PM **Reception**

FRIDAY, OCTOBER 19

8:30 - 9:15 AM **Transient & Succession of Steady-States Models for Pipeline Applications** **0008**

Authors: Jerry L. Modisette – Energy Solutions International
Jason P. Modisette – Energy Solutions International

The authors discuss and compare two methods for handling unsteady flow in pipelines.

9:15 - 10:00 AM **Manpower Savings and Operational Improvements at Energia Mayakan** **0109**

Authors: Leo Robles – Energia Mayakan (Mexico)
Jim Short – Stoner Associates

Field experiences with simulation models on Mexico's 400 mile 24 inch pipeline delivering gas to power plants is related.

10:00 - 10:30 AM **Break**

10:30 - 11:15 AM **Integration of Physical and Commercial Operations in the Pipeline: A Real-Time Perspective** **0110**

Author: Glen Sartain – energy Solutions International

FERC order 637 has forced the merging of the physical operations of pipelines with the commercial side. The integration of these is described at SembCorp Gas in Singapore.

11:15 - Noon **A Fully-Coupled Transient Model for Predicting Interface Contamination in Product Pipelines** **0111**

Authors: Renan M. Baptista – Petrobras (Brazil)
Felipe B. de Freitas Rachid – Universidade Federal Fluminense (Brazil)
Jose H.C. de Araujo – Universidade Federal Flum.

The paper describes the modeling of the interface between two different products being transported in a liquid pipeline.

Noon **Adjournment**

Notes:

1) There will be a Dutch treat breakfast for spouses of attendees in the coffee shop at 9:00 AM Thursday morning. Information will be disseminated on the local attractions so that the spouses can plan their day.

2) There will be a golf outing at 1:00 PM on Friday afternoon October 19. The location will be announced later. The cost will be announced later. The dress code is "appropriate attire", no denim or corduroy jeans. Collars and sleeves are appropriate. Golf shoes are required (no mention of cleats). Tennis shoes are subject to approval. **Please sign up on the registration form if you wish to participate**.