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
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
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
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
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.