

American Gas Association Operations Conference & Biennial Exhibition

PRELIMINARY PROGRAM



WWW.AGA.ORG



May 24–27, 2011

Gaylord Opryland Resort & Convention Center

Nashville, Tennessee

SAFETY & OPERATIONAL EXCELLENCE — A COMMITMENT TO OUR AMERICA

Week At-A-Glance
AGA Spring Committee Meetings and Operations Conference & Exhibition Activities
May 22-27, 2011

Sunday, May 22

8:00 a.m. – 5:00 p.m. – Optional Volunteer Activities: Helping our Nashville Neighbors

2:00 – 5:00 p.m. – Steering Groups Planning Meeting* (current and past committee officers)

5:30 – 6:30 p.m. – Meet and Greet Reception*

<u>Monday, May 23</u>	<u>Tuesday, May 24</u>	<u>Wednesday, May 25</u>	<u>Thursday, May 26</u>	<u>Friday, May 27</u>
8:00 a.m. – 5:00 p.m. Technical Committee Meetings*	6:00 – 7:30 a.m. OESA MC Meeting	7:00-8:15 a.m. Awards Breakfast	8:00-11:40 a.m. Concurrent Conference Tracks	8:00-11:40 a.m. Concurrent Conference Tracks
1:00 – 5:00 p.m. Managing Committee Meeting*	8:00 a.m. – 3:30 p.m. Technical Committee Meetings*	8:30-10:00 a.m. General Session	11:40 a.m. – 12:45 p.m. AGA Chairman’s Lunch	1:00-5:00 p.m. Optional Golf Outing
4:00 – 5:30 p.m. DuPont Fire ThermoMan Demo	8:00 a.m. – 4:00 p.m. Managing Committee Meeting*	10:20 a.m.- Noon Concurrent Conference Tracks	12:45 – 5:15 p.m. Concurrent Conference Tracks	
6:00 - 7:00 p.m. Meet & Greet Reception*	11:30 a.m. – 1:30 p.m. Preview Lunch – Exhibit Hall	10:30 a.m. – 1:00 p.m. Registered Guest Program		
	4:00 – 5:30 p.m. Pre-Conference Session	10:30 a.m. – 5:30 p.m. Customer Day – Exhibit Hall		
	6:00 – 9:00 p.m. Grand Opening Reception – Exhibit Hall	Noon – 2:15 p.m. Buffet Lunch – Exhibit Hall		
		2:15 – 5:55 p.m. Concurrent Conference Tracks		
		6:00 – 7:30 p.m. Cocktail Hour – Exhibit Hall		

* AGA Operating Section Technical Committee Members and Invited Guests ONLY

NOTE: All food and beverage events during the conference and in the exhibit hall are hosted and open to all conference registrants and registered guests.

Schedule at a Glance

Sunday, May 22, 2011

- 8:00 am - 5:00 pm Optional Volunteer Activities: Helping our Nashville Neighbors
- 1:00 pm - 2:30 pm Registration
- 2:00 pm - 5:00 pm Steering Groups Planning Meeting - current and past committee officers (AGA members or by invitation only)
- 5:00 pm - 6:30 pm Registration
- 5:30 pm - 6:30 pm "Meet and Greet" Reception (AGA members or by invitation only)

Monday, May 23, 2011

- 7:00 am - 8:30 am Continental Breakfast
- 7:00 am - 7:00 pm Registration
- 8:00 am - 5:00 pm Pre-conference spring committee meetings (AGA members or by invitation only)
- 4:00 pm - 5:30 pm DuPont Fire ThermoMan Demo
- 6:00 pm - 7:00 pm "Meet and Greet" Reception (AGA members or by invitation only)

Tuesday, May 24, 2011

- 7:00 am - 8:30 am Continental Breakfast
- 7:00 am - 9:00 pm Registration
- 8:00 am - 3:30 pm Pre-conference spring committee meetings (AGA members or by invitation only)
- 11:30 am - 1:30 pm Preview Lunch - Exhibit Hall
- 4:00 pm - 5:30 pm Pre-Conference Session
- 6:00 pm - 9:00 pm Grand Opening Reception

Wednesday, May 25, 2011

- 7:00 am - 8:15 am Awards Breakfast (Awards of Merit, Safety Achievement Awards & individual award winners - by invitation only)
- 7:00 am - 8:30 am Continental Breakfast
- 7:00 am - 7:30 pm Registration
- 8:30 am - 10:00 am Opening General Session

Schedule at a Glance

Wednesday, May 25, 2011

- 10:00 am - 10:20 am Break
- 10:20 am - 12:00 pm **Track A**
- Track A1: Gas Utility Management
 - Track A2: Safety
 - Track A3: Plastic Materials
 - Track A4: Corrosion
 - Track A5: Engineering
 - Track A6: Shale Gas/Gas Quality
- 10:30 am - 1:00 pm Registered Guest Program - Top Chef Luncheon
- 12:00 pm - 2:15 pm Buffet Lunch - Exhibit Hall
- 2:15 pm - 3:55 pm **Track B**
- Track B1: Gas Utility Management
 - Track B2: Safety
 - Track B3: Distribution Measurement
 - Track B4: Underground Storage
 - Track B5: Plastic Materials
 - Track B6: Gas Quality
- 4:15 pm - 5:55 pm **Track C**
- Track C1: Gas Utility Management
 - Track C2: Safety
 - Track C3: Distribution Measurement
 - Track C4: TIMP/Plastic Materials
 - Track C5: Engineering
 - Track C6: Gas Quality
- 6:00 pm - 7:30 pm Cocktail Hour - Exhibit Hall

Schedule at a Glance

Thursday, May 26, 2011

- 7:00 am - 8:30 am Continental Breakfast
- 7:00 am - 5:00 pm Registration
- 8:00 am - 9:40 am **Track D**
Track D1: Gas Utility Management
Track D2: Engineering/Safety
Track D3: AMI/AMR
Track D4: Supplemental Gas/Gas Quality
Track D5: Plastic Materials
Track D6: Transmission Measurement
- 10:00 am - 11:40 am **Track E**
Track E1: Gas Utility Management
Track E2: Plastic Materials
Track E3: Distribution Measurement
Track E4: Supplemental Gas
Track E5: Underground Storage
Track E6: Transmission Measurement
- 11:40 am - 12:45 pm AGA Chairman's Lunch
- 12:45 pm - 3:05 pm **Track F**
Track F1: Excavation Damage Prevention/Field Operations Safety/Meter Reading
Track F2: Plastic Materials/Corrosion
Track F3: Engineering
Track F4: Environmental
Track F5: Gas Control
Track F6: Transmission Measurement
- 3:25 pm - 5:15 pm **Track G**
Track G1: Utility & Customer Field Services/Construction & Maintenance

Schedule at a Glance

Thursday, May 26, 2011

Track G2: Corrosion

Track G3: Engineering

Track G4: Leak Detection/Storage

Track G5: Supplemental Gas

Track G6: Transmission Measurement

Friday, May 27, 2011

7:00 am - 8:30 am Continental Breakfast

7:00 am - 10:00 am Registration

8:00 am - 9:40 am **Track H**

Track H1: DIMP

Track H2: Gas Control

Track H3: Gas Utility Management

Track H4: Utility & Customer Field Services

Track H5: Transmission Measurement

10:00 am - 11:40 am **Track I**

Track I1: DIMP

Track I2: Gas Control

Track I3: Reserved

Track I4: Utility & Customer Field Services

Track I5: Transmission Measurement

1:00 pm - 5:00 pm Golf Outing

Program - Tuesday, May 24

Pre-Conference Session

4:00 pm - 5:30 pm
Pre-Conference Session

4:00 pm - 4:45 pm
Pipeline Safety Regulatory
Discussion

Linda Daugherty
Director, Southern Region
U.S. Department of
Transportation

Christina Sames
Vice President, Operations &
Engineering
American Gas Association

4:45 pm - 5:30 pm
Demand Side Growth
Natural gas and the
infrastructure used to deliver it
are the “here and now” of our
nation’s clean energy future.
Hear the results of AGA’s
Growth Task Force to assess
priority growth for natural gas
utility markets in serving the
needs of clean and secure
energy economy. Priority
pathways identified by the
task force for residential and
commercial growth are
efficient thermal applications,
transportation, clean and
renewable energy, distributed
energy and natural gas in a
smart energy grid. AGA is
engaged in a number of
activities to support member
efforts to stimulate demand
along these priority pathways.
Learn the status of these
activities and other efforts to
build a preference for natural
gas use in homes, buildings
and vehicles.

Paula A. Gant
Senior Vice President, Policy
and Planning
American Gas Association

Grand Opening Reception

6:00 pm - 9:00 pm
Grand Opening Reception

Program - Wednesday, May 25

Opening General Session

8:30 am - 10:00 am
Opening General Session

(General Session brought to you by the generosity of Itron)

Welcome, Introductions and Review of AGA Antitrust Guidelines

Host Utility Welcome

Tim Greenhouse

Regional Executive, Tennessee
Piedmont Natural Gas Co., Inc.

Nashville Welcome

Mayor Karl Dean

General Session Sponsor
Recognition - Itron

Safety Awards Recognition

Keynote Speaker

Special Industry Awards
Presentations

Track A1

10:20 am - 12:00 pm
Gas Utility Management

10:20 am - 11:05 am
Smart Strategies for a Smart Grid for Gas (panel)

The pros and cons of incorporating natural gas appliances into a “smart grid” and how this could be accomplished will be discussed by the panelists. Is it a good idea for consumers? What is the goal for a gas smart grid? Could computer hackers break into the system and cause havoc? What have AGA member companies already done and what are they planning next?

Moderator: Daniel A. Norden

Director, Environmental
Management
Baltimore Gas and Electric Co.

Panelists:

Frits Bliiek

KEMA

Kristine Cruz

Senior Scientist
GTI

Jorg Gigler

Manager, Sustainability &
Clean Energy
KEMA

Joseph Turgeon

Director, Smartgrid Solutions
Elster American Meter

11:15 am - 12:00 pm
Smart Strategies for a Smart Grid for Gas (panel) Cont'd

12:00 pm - 2:15 pm
Buffet Lunch - Exhibit Hall

Program - Wednesday, May 25

Track A2

10:20 am - 12:00 pm
Safety

10:20 am - 11:05 am
AGA Safety Achievement
Award Presentation

11:15 am - 12:00 pm
AGA Motor Vehicle Safety
Award Presentation

12:00 pm - 2:15 pm
Buffet Lunch - Exhibit Hall

Track A3

10:20 am - 12:00 pm
Plastic Materials

10:20 am - 11:05 am
Electrofusion Processors
Evaluation

Independent evaluation of the electrofusion processor has been critical to ensure compatibility with different types of power sources, the ability to fuse any manufacturer's fittings and to store and access critical parameters of the electrofusion process. This presentation will provide useful guidance to increase productivity and efficiency when using electrofusion to join plastic pipe.

Parashar N. Sheth P.E.

Manager, Engineering Policy &
Standards, US Gas Distribution
National Grid

11:15 am - 12:00 pm
Polyethylene Pipe: Butt
Fusion Integrity

Polyethylene pipe butt fusions rarely fail but longevity and durability will be affected by butt fusion parameter variations. This presentation will review polyethylene pipe butt fusion processes and what research is revealing about certain butt fusion optimizations.

Joseph P. Mallia

Senior Project Engineer
NYSEARCH

12:00 pm - 2:15 pm
Buffet Lunch - Exhibit Hall

Track A4

10:20 am - 12:00 pm
Corrosion

10:20 am - 11:05 am
ILI Tool Considerations and
Limitations (panel)

11:15 am - 12:00 pm
Overview of Failure
Mechanisms of Welds

12:00 pm - 2:15 pm
Buffet Lunch - Exhibit Hall

Program - Wednesday, May 25

Track A5

10:20 am - 12:00 pm
Engineering

10:20 am - 11:05 am
Gas Outage Management
(panel)

The panelists will discuss the systems and applications used and the system integration to support gas outage management and emergency response initiatives as well as the business processes and roles and responsibilities between operations and engineering.

Panelists:

Don Bruessel

Supervising Engineer, Planning
Engineering
We Energies

Kevin J. Hemingway

Director
GL Noble Denton

Will Schwarzenbach P.E.

Lead Engineer
Questar Gas Co.

11:15 am - 12:00 pm
Interconnect Standards and
Procedures (panel)

Interconnect standards and procedures relative to producers, gas quality/monitoring, and purchasing will be discussed.

Panelists:

Troy Paige P.E.

Manager, Engineering Services
Atmos Energy Corp.

Will Schwarzenbach P.E.

Lead Engineer
Questar Gas Co.

Allen J. Spivey

Director, Office of Corporate
Engineering
AGL Resources Inc.

12:00 pm - 2:15 pm
Buffet Lunch - Exhibit Hall

Track A6

10:20 am - 3:55 pm
Shale Gas/Gas Quality

10:20 am - 11:05 am
Managing Marcellus Shale Gas
Quality

Dominion Transmission will discuss its experience with traditional Appalachian supplies and how Marcellus Shale may change the landscape from a gas quality standpoint. The presentation will highlight some of the complexities of inter-system operations as well as some of the considerations that must be made in managing regional changes in gas quality.

David Noss

Mgr., Commercial Activities
Gathering
Dominion Transmission, Inc.

11:15 am - 12:00 pm
Supporting Optimal Routes for
the Injection of Biogases into
Natural Gas Infrastructure

Biogases can be injected into the existing natural gas grid, offering the possibility for a gradual transition to a more sustainable energy system. Consequently, an increasing demand emerges for a generic model to determine the optimal routes from biogas production to "green" gas injection. An approach will be presented that consists of several system designs, including an extended set of technologies.

Program - Wednesday, May 25

Jorg Gigler

Manager, Sustainability &
Clean Energy
KEMA

Harm Vlap

KEMA

12:00 pm - 2:15 pm

Buffet Lunch - Exhibit Hall

Track B1

2:15 pm - 3:55 pm **Gas Utility Management**

2:15 pm - 3:00 pm

NTSB Investigative Process for
San Bruno

This presentation will cover
the investigation conducted by
the NTSB in the aftermath of
the pipeline rupture occurring
in San Bruno, CA, on
September 9, 2010.

Stephen J. Klejst

Director
Office of Railroad, Pipeline and
Hazardous Materials
Investigations (RPH-1)
National Transportation Safety
Board

3:10 pm - 3:55 pm

Don't Let Your Project Get
Held Up by Environmental
Issues or Environmental
Permits

Mary E. Casey

Principal Environmental
Engineer
National Grid

Janet R. Fox

General Manager, EH&S
Consolidated Edison Co. of
New York, Inc.

Track B2

2:15 pm - 3:55 pm **Safety**

2:15 pm - 3:00 pm

AGA Safety Achievement
Award Presentation

3:10 pm - 3:55 pm

Spectra Energy Strategic View
of Personal Safety

Paul J. Greco P.E.

Director, Corporate EH&S
Spectra Energy Transmission

Program - Wednesday, May 25

Track B3

2:15 pm - 3:55 pm Distribution Measurement

2:15 pm - 3:00 pm

How Long Does a Residential Diaphragm Meter Last?

Depending on the meter technology, installation and quality of gas delivered, natural gas meters generally require limited maintenance. As with most mechanical devices, turbine and rotary meters require periodic inspections and lubrication, and the procedures followed should be those recommended by the meter manufacturer. This presentation will outline the general maintenance guidelines and best practice recommendation by the Gas Measurement, Turbine and Rotary Meter Industry Standards.

Ragnvald H. Johnson

Manager
National Grid

3:10 pm - 3:55 pm

Considerations When Designing a Program for Evaluating In-Service Performance of Gas Meters

The process used for selecting a program to evaluate in-service gas meter performance will be described, including PUC compliance, waivers, options for phasing out of the existing program, available data, recordkeeping requirements and testing procedures.

Ben Sherman

Principal Specialty Engineer
Xcel Energy Inc.

Track B4

2:15 pm - 3:55 pm Underground Storage

2:15 pm - 3:00 pm

Wireline Deployed Casing Cutters

An introduction to tubular cuts downhole using a wireline conveyed downhole electric cutting tool will be discussed.

Max Killingsworth

Lead Service Manager,
Western Hemisphere Precision
Cutting Solutions
GE Energy - Sondex

3:10 pm - 3:55 pm

Steckman Ridge Project Development

A review of the Steckman Ridge Storage Project jointly owned by Spectra and New Jersey Resources will be discussed. Steckman Ridge is a depleted natural gas production field converted to an 18 BCF multi-cycle storage facility in Bedford County, Pennsylvania.

Mark E. Gredell

Manager, US Storage
Development
Spectra Energy Corp.

Program - Wednesday, May 25

Track B5

2:15 pm - 3:55 pm
Plastic Materials

2:15 pm - 3:00 pm

Plastic Pipe Data Collection
(PPDC) Initiative

An update on the Plastic Pipe Data Collection program will be presented - what's new, what has changed and what hasn't. Have your questions answered about data to be reported, how to submit your data reports and the database itself.

Stephen Boros

Technical Director
Plastics Pipe Institute

3:10 pm - 3:55 pm

Distribution New Construction
Issues Specific to Plastic
Materials and Personnel
Qualification

The impact of NAPSR guidelines on distribution, new construction, inspection and findings related to plastic materials will be discussed.

Jerry V. Gann

Manager of Operations
Compliance
CenterPoint Energy

Edward Newton

Materials/Corrosion Team
Leader
San Diego Gas & Electric
Co./Southern California Gas Co.

Track B6

2:15 pm - 3:55 pm
Gas Quality

2:15 pm - 3:00 pm

Does Powergen Equipment
Like Renewable Gases in the
Gas Grid?

Renewable gases, such as biogas and landfill gas, contain components that do not occur in pipeline natural gas, including carbon dioxide, hydrogen and carbon monoxide. This presentation will address the adverse effects of such gases on power generation equipment, both "pure" and blended with pipeline natural gas and how to characterize these effects.

Howard Levinsky

Kema Nederland B.V.

3:10 pm - 3:55 pm

Summary of Investigation Into
"Gas Quality Requirements"
for Non-Traditional Sources of
Natural Gas

This presentation is intended to share with others considering non-traditional sources of natural gas. Puget Sound Energy's (PSE) experience developing gas quality requirements for processed landfill gas will be discussed.

Kurt W. Hoppen P.E.

Engineering Supervisor, Gas
Standards and Commodities
Puget Sound Energy

Track C1

4:15 pm - 5:55 pm
Gas Utility Management

4:15 pm - 5:00 pm

Go Green/Reduce Carbon
Emissions

Joseph Callanan

Director, US Environmental
Services
National Grid

5:10 pm - 5:55 pm

Management & Risk
Assessment of Older Vintage
Pipelines

Craig A. Lynch

Vice President, Energy Delivery
New Jersey Natural Gas

6:00 pm - 7:30 pm

Cocktail Hour - Exhibit Hall

Program - Wednesday, May 25

Track C2

4:15 pm - 5:55 pm
Safety

4:15 pm - 5:00 pm
Contractor Management

Mark Connors

Manager, Design Engineering
PECO Energy

5:10 pm - 5:55 pm
Transform Your Safety Culture
Using "Six Sigma" Tools

The application of simple, highly effective, non-mathematical tools that energize an organization to relentlessly pursue a zero-incident safety culture will be discussed.

Mike Williamsen

Director of Consulting Services
Caterpillar Safety Services

6:00 pm - 7:30 pm
Cocktail Hour - Exhibit Hall

Track C3

4:15 pm - 5:55 pm
Distribution Measurement

4:15 pm - 5:00 pm
Tracking the Gas Temperature
Effect in a Distribution System

A representative sample of domestic non-temperature-compensating gas meters in the Questar Gas service area was instrumental in tracking ambient, gas, ground and meter surface temperatures and solar radiation. This presentation will cover the effect of gas temperature on measurement accuracy and the effectiveness of temperature zones for improving measurement accuracy. Comparisons will be made between temperature-compensated meters and measurements made with non-temperature-compensated meters using various representations of gas temperature.

Eric Kelner P.E.

Partner
The Letton-Hall Group

Bryan Niebergall P.E.

Questar Gas

5:10 pm - 5:55 pm
New Products In Gas
Measurement

Gas measurement technology is rapidly advancing in terms of products for the distribution and transmission segments of the natural gas business. This session will provide an opportunity for gatherers, pipelines and utilities to review new developments that may impact their bottom lines.

Moderator: Fred J. Maly

Superintendent Measurement
Laclede Gas Co.

6:00 pm - 7:30 pm
Cocktail Hour - Exhibit Hall

Program - Wednesday, May 25

Track C4

4:15 pm - 5:55 pm
TIMP/Plastic Materials

4:15 pm - 5:00 pm
Pipeline Integrity
Management - Lessons
Learned and Decision-Making
Tools

This presentation will be a discussion of the integrity challenges encountered on a mature system including quantitative methods to determine the operational life of mains and a risk-based approach to replacement decisions.

Richard J. Row

Program Manager - Gas
Integrity Management
Baltimore Gas and Electric Co.

5:10 pm - 5:55 pm
Large Diameter Plastic Pipe for
Natural Gas Distribution

Dominion East Ohio Gas has been using large diameter plastic pipe in its distribution system for the past 10 years. This presentation will focus on how advances in technology have allowed the utility to use larger diameter plastic pipe (8- to 12-inches) with greater ease and an eye toward pipeline integrity.

Brian W. Moidel

Compliance Engineer
Dominion East Ohio

6:00 pm - 7:30 pm
Cocktail Hour - Exhibit Hall

Track C5

4:15 pm - 5:55 pm
Engineering

4:15 pm - 5:00 pm
Improving Communications =
Reducing Damages

This presentation will focus on how improvements in communication among stakeholders in the one-call process contribute to a reduction in excavation damages.

Ron Peterson

Geospatial Corp.

5:10 pm - 5:55 pm
Keyhole Technology for
Maintenance/Replacement
Work (panel)

The panelists will discuss keyhole technology for maintenance and replacement activities, including regulatory approval requirements and process.

Panelists:

Mark Andraka

Sr. Engineer
PECO Energy

Dennis R. Jarnecke

Program Manager
GTI

Marshall Pollock

President & CEO
Utilicor Technologies Inc.

6:00 pm - 7:30 pm
Cocktail Hour - Exhibit Hall

Track C6

4:15 pm - 5:55 pm
Gas Quality

4:15 pm - 5:00 pm
Effects of Varying Natural Gas
Compositions on Components
of the Natural Gas
Infrastructure

This presentation will cover the results to date of a study that is under way to determine the impact of varying gas compositions on the natural gas pipeline network infrastructure. The project is funded by a consortium of gas utilities through NYSEARCH/Northeast Gas Association and the research is being conducted by the Gas Technology Institute.

Daniel A. Ersoy

R&D Director
GTI

5:10 pm - 5:55 pm
NYSEARCH Gas
Interchangeability Study
Associated with In-Use
Residential Appliances

This presentation will cover a multi-year NYSEARCH R&D project designed to identify how a wide range of gas compositions may affect residential appliances and to define the range of acceptable operation of those appliances to avoid problems that could be caused by a combination of a change in appliance condition and a change in gas composition. The extensive field-testing program and a subsequent laboratory test program to be completed in 2011 will be discussed.

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Daphne C. D'Zurko

Executive Director,
NYSEARCH/VP, RD&D
Northeast Gas Association

6:00 pm - 7:30 pm

Cocktail Hour - Exhibit Hall

Track D1

8:00 am - 9:40 am

Gas Utility Management

8:00 am - 8:45 am

Common Ground Alliance
Update on 811

Khrysanne Kerr

Director, Program
Development
Common Ground Alliance

8:55 am - 9:40 am

Public Awareness

9:40 am - 10:00 am

Break

Program - Thursday, May 26

Track D2

8:00 am - 9:40 am Engineering/Safety

8:00 am - 8:45 am

Sewer Safety – Duke Energy and Cincinnati Metropolitan Sewer District Collaborative Agreement and Enbridge Gas Distribution Sewer Safety Program (panel)

Cincinnati Metropolitan Sewer District and Duke Energy will discuss their collaborative agreement to combine efforts that benefit both utilities. The presentation will explain the benefits to the two utilities of the combined data collected, the cost-sharing benefits and the overall safety benefit for the community. Enbridge Gas Distribution will describe their comprehensive Sewer Safety Program's six elements.

Lisa Lawler

Director, Integrity
Enbridge Gas Distribution Inc.

Dan Schuler

Duke Energy

Jerry Weimer

Cincinnati Metropolitan Sewer District

8:55 am - 9:40 am

Comparison of Standard Versus Light-Weight Jackhammers

This presentation will provide an overview of a recent study conducted by the Gas Technology Institute and the University of Wisconsin-Milwaukee to determine the biomechanical and ergonomic impact on the operator due to standard-weight (~90 lbs.) and light-weight (~60 lbs.) jackhammer usage. The difference between the standard-weight jackhammers and several light-weight models was determined for four pavement types. The factors considered were vibration, noise, performance time, hand and body response, and the operators' perceptions. The results indicate various conditions under which the light-weight models should be chosen over the normal-weight models. The study concludes with a discussion of how to manage and reduce utility workers exposure to known work-related risk factors of jackhammer usage, in addition to pointing the way to future studies and improvements.

Naira Campbell-Kyureghyan Ph.D.

Center for Ergonomics,
Industrial & Mfg. Engineering
University of Wisconsin

Dennis R. Jarnecke

Program Manager
GTI

9:40 am - 10:00 am

Break

Program - Thursday, May 26

Track D3

8:00 am - 9:40 am
AMI/AMR

8:00 am - 8:45 am
Leveraging Datalogging in Gas Modules in Times of Catastrophic Events and Itron's AMI Solution

In responding to explosions and fire events, AGL Resources Inc.'s Legal and Corporate Security Departments have leveraged new meter reading technology to extract hourly interval data from the gas module. This hourly data has provided investigators with flow rates through the meter prior to catastrophic events and helped avoid costly litigation. Learn more about AGLR's experiences and Itron's gas AMI solution.

Robb Emehiser

Product Marketing Manager
Itron

Bryony Hodges

Senior Litigation Counsel
AGL Resources

8:55 am - 9:40 am

AMI/AMR State of the Gas Industry

This presentation will provide an industry update of AMI/AMR utility projects as researched by the AMI/AMR subcommittee of the AGA Distribution Measurement Committee. Definitions and AMI/AMR survey results will also be discussed.

Kristine Pascarello

(Task Group Chair)
Senior Engineer Lead
CMS Energy

9:40 am - 10:00 am

Break

Track D4

8:00 am - 9:40 am
Supplemental Gas/Gas Quality

8:00 am - 8:45 am
Trunkline LNG/Ortloff Engineering NGL Extraction Project Review

The installation and performance of the Ortloff Engineering NGL extraction technology installed at the Trunkline LNG terminal will be reviewed, as will the unique aspects of an NGL plant that begin with LNG and return lean residual gas to the terminal as LNG for vaporization.

Stephen Cox

Process Engineer
Trunkline LNG Co.

Kyle Cuellar

Process Design Engineer
Ortloff Engineers, Ltd.

8:55 am - 9:40 am

Biogas and Pipeline Quality Renewable Natural Gas (panel)

The panelists will discuss how gas utilities may use methane from landfills, dairy waste and agricultural waste to serve their customers and the latest research on cleaning biogas to produce pipeline-quality gas. Also, case studies about hands-on practical experience with real-life projects will be presented.

Moderator/Panelist: Kristine Cruz

Senior Scientist
GTI

Panelists:

Program - Thursday, May 26

Gregory L. Jones

Sr. Environmental Specialist
AGL Resources Inc.

9:40 am - 10:00 am
Break

Track D5

8:00 am - 9:40 am
Plastic Materials

8:00 am - 8:45 am
PCB Absorption in
Polyethylene Pipe

The consequences of PCB exposure inside polyethylene pipe are unknown. Absorption of PCBs into the plastic pipe wall may mean that post-rehabilitation abandonment would be impossible under EPA rules. This presentation will review the research being performed to determine if PCBs are absorbed in polyethylene pipe material and the possible methods of a thorough cleaning.

Joseph P. Mallia

Senior Project Engineer
NYSEARCH

8:55 am - 9:40 am
High-Pressure PA12 Plastic
Pipe for Hydrocarbon Rich Gas
— Avoid BTX Permeation of
Polyethylene Piping Systems

This presentation will detail the hydrocarbon resistance and low permeation of benzene, toluene and xylene into PA12 plastic pipes. Comparison with polyethylene pipe systems and specific permeation data will be furnished.

Peter E. Rieck

Market Development Manager
Evonik Performance Polymers

9:40 am - 10:00 am
Break

Track D6

8:00 am - 9:40 am
Transmission Measurement

8:00 am - 8:45 am
Operational Expectations for
Custody and Verification
Measurement Systems

Boardwalk Pipeline Partners installed custody and verification metering systems on Boardwalk's recent expansion projects. This presentation will cover the initial strategy to install the verification systems, including initial expectations and data from the past two years of operations that illustrate the long-term performance of the systems and how the systems have been used to identify measurement issues.

Ed Hanks

Engineer
Boardwalk Pipelines Partners,
LP

8:55 am - 9:40 am
Test Benches for Calibration of
Custody Transfer Gas Meters

Meter-testing practice outside the United States is heavily swayed toward shop-proving (calibration or test benches) in lieu of field-proving with a portable transfer prover. This presentation will address the reasons for and advantages of using a shop test bench for rotary, turbine and ultrasonic meters, with an emphasis on International testing requirements.

Program - Thursday, May 26

Phil Whittemore

Director of Global Marketing
Dresser Roots Meters &
Instruments

9:40 am - 10:00 am

Break

Track E1

10:00 am - 11:40 am
Gas Utility Management

10:00 am - 10:45 am
Pipeline Safety Regulatory
Update

Philip Bennett

Senior Managing Counsel,
Operations Safety
American Gas Association

Andrew Lu

Managing Director, Operations
& Engineering
American Gas Association

Bruce L. Paskett

Principal Compliance Engineer
NW Natural

10:55 am - 11:40 am
Commercial (Larger) Excess
Flow Valves

Jerry Taggart

Compliance Specialist
NiSource

11:40 am - 12:45 pm
AGA Chairman's Lunch

Track E2

10:00 am - 11:40 am
Plastic Materials

10:00 am - 10:45 am
First Aid and CPR; A Must-
Have for Your Safety Program
According to OSHA, more than
4 million injuries and illnesses
occur in the workplace
annually. It's important that
employers provide First Aid,
CPR, and AED training for their
employees to quickly respond
to an injured and ill employee.
During this presentation, you'll
learn more about American
Heart Association's First Aid,
CPR, and AED training
programs.

Thomas Bennett III

Marketing Manager, Corporate
Market
American Heart Association
National Center

10:55 am - 11:40 am
Pipe Integrity & Worker Safety
Impacts of Environmental
Contamination

This presentation will focus
primarily on oil and solvent
plumes and their impacts on
pipe integrity and worker
safety.

William D. Schrand

Manager, Environmental
Programs
Southwest Gas Corp.

11:40 am - 12:45 pm
AGA Chairman's Lunch

Program - Thursday, May 26

Track E3

10:00 am - 11:40 am Distribution Measurement

10:00 am - 10:45 am Measurement Validation and Resolution Processing for Today's Measurement Group

The many validation rules available today to the measurement group and their practical application will be reviewed. The exception logging review and resolution process also will be examined.

Duane Harris

Vice President Sales & Support
Flow-Cal, Inc.

10:55 am - 11:40 am Determining Lost and Unaccounted-For Gas Loss

This presentation will focus on the definition of unaccounted-for gas loss, the potential dollar impact on a gas company and the impact of Sarbanes-Oxley on the unaccounted-for gas loss process will be discussed. Also, a review of a detailed identification and reduction process will be presented.

Duane Harris

Vice President Sales & Support
Flow-Cal, Inc.

11:40 am - 12:45 pm AGA Chairman's Lunch

Track E4

10:00 am - 11:40 am Supplemental Gas

10:00 am - 10:45 am When Maintenance Is Not Enough

This presentation will review methods for monitoring the maintainability of LNG and propane-air equipment, with emphasis on evaluating when more than routine maintenance is appropriate and cost-effective.

Alan D. Hatfield P.E.

Vice President, LNG Technical
Services
BRAEMER WAVESpec USA Inc.

10:55 am - 11:40 am Propane-Air Use in Hawaii

The use of propane-air in Hawaii to back up natural gas production and to maintain service during integrity management projects will be discussed.

John P. Hoch

President
Standby Systems, Inc.

11:40 am - 12:45 pm AGA Chairman's Lunch

Track E5

10:00 am - 11:40 am Underground Storage

10:00 am - 10:45 am Surface Well Testing

Techniques for testing gas storage wells from the surface to avoid the risk and cost of using downhole equipment will be discussed.

Dr. Nathan Waldman

President
Data Retrieval Corp.

10:55 am - 11:40 am Seismic 101

The goal of exploration seismology is to find hydrocarbon reservoirs by imaging the earth's subsurface. The seismic method may be described in three parts: (1) acquisition, (2) processing, and (3) interpretation. The discussion will include numerous factors which must be considered in all three phases to ensure the goals of the seismic survey are met.

Matthew Johnston

Geophysicist
West Bay Exploration Co.

11:40 am - 12:45 pm AGA Chairman's Lunch

Program - Thursday, May 26

Track E6

10:00 am - 11:40 am
Transmission Measurement

10:00 am - 10:45 am
Meter Calibration Effects from the Field to the Office

This presentation will cover terminology and its effect in the calibration process, test/calibration frequencies from contractual obligations to meter and equipment types, the importance of test report documentation and a test report verification process, and test/calibration procedures and equipment.

Duane Harris

Vice President Sales & Support
Flow-Cal, Inc.

10:55 am - 11:40 am
AGA 9 Field-Proving of Gas Meters Using Transfer Methods

An overview of AGA Report No. 9 and how it is applied to field-proving of natural gas meters will be presented. Each method of proving and the advantages and disadvantages of each will be covered.

Daniel J. Rudroff

Chief Operating Officer
WFMS Inc.

11:40 am - 12:45 pm
AGA Chairman's Lunch

Track F1

12:45 pm - 3:05 pm
Excavation Damage Prevention/Field Operations Safety/Meter Reading

12:45 pm - 1:30 pm
Cross Bore Regulatory Update in Minnesota

Daniel J. Woehrle P.E.

Manager, Gas System Engineering
Xcel Energy Inc.

1:40 pm - 2:25 pm
Improvements and Lessons Learned in Industry Barhole Techniques for Leak Pinpointing

Parashar N. Sheth P.E.

Manager, Engineering Policy & Standards, US Gas Distribution
National Grid

2:35 pm - 3:05 pm
Best Practices in Meter Reading

The ways in which Atmos Energy approaches meter reading, AMR and AMI, and use of the Segway will be discussed as will the company's management philosophy and strategy that helps it achieve a healthy and productive culture in the workplace.

Wayne Turner (Invited)

Operations Manager
Atmos Energy Corp.

Track F2

12:45 pm - 3:05 pm
Plastic Materials/Corrosion

12:45 pm - 1:30 pm
"Compression Fittings 101"

This presentation will cover the form and function of compression fittings used to join steel and plastic pipe.

Glenn R. McMurray

President
Norton McMurray Manufacturing Co.

1:40 pm - 2:25 pm
Review of Soils to Assess Leakage: Analysis of Mechanical Joints & Incorporation of Soil Analysis in DIMP

2:35 pm - 3:05 pm
Assessing Atmospheric Corrosion In Casings

ConEd has completed work to assess atmospheric corrosion in its casings and will discuss the methods used and the results of its work.

Program - Thursday, May 26

Track F3

12:45 pm - 3:05 pm
Engineering

12:45 pm - 1:30 pm

Railroad Casings Issues

This presentation will cover the experience in dealing with CSX and how to deal with potential roadblocks.

Benjamin C. Kanoy

Chief Engineer - Gas
Transmission Engineering
Vectren Corp.

1:40 pm - 2:25 pm

Qualification of Personnel
Performing New Construction
Tasks and Ensuring the Quality
of Installation

Contractor training and ASME
B31Q will be discussed.

Mike Gruenberg

Manager, Operations Staff
Southwest Gas Corp.

2:35 pm - 3:05 pm

MAOP Process Management

The key process elements of
managing accurate MAOP
values and observations of
common MAOP process
breakdowns and best practices
will be discussed.

Bill Byrd P.E.

President
RCP Inc.

Track F4

12:45 pm - 3:05 pm
Environmental

12:45 pm - 1:30 pm

Greenhouse Gas Reporting for
Natural Gas (panel)

This panel will discuss how to cope with two new greenhouse gas reporting rules. (1) "Subpart NN" requires gas utilities to file reports with EPA every March measuring gas deliveries and carbon emissions during the previous year. (2) "Subpart W" requires gas utilities and pipelines to report methane leaks during the prior year from natural gas transmission compression, distribution, underground storage and LNG facilities. Compliance will require a coordinated effort from many different groups at your company, including gas measurement, environmental, field services and operations.

**Moderator: Alex Izadpanah
P.E.**

Supervisor, Environment
Washington Gas Light Co.

Panelists:

Kristine Cruz

Senior Scientist
GTI

Pamela A. Lacey

Senior Managing Counsel,
Environmental
American Gas Association

Ian Miller

Air Quality Engineer
AECOM

1:40 pm - 2:25 pm

Greenhouse Gas Reporting for
Natural Gas (panel) Cont'd

2:35 pm - 3:05 pm

PCBs – How to De-List Areas in
Your Service Territory

John Woodyard P.E.

Vice President
Weston Solutions, Inc.

Program - Thursday, May 26

Track F5

12:45 pm - 3:05 pm Gas Control

12:45 pm - 1:30 pm Assessing Controller Workload

The CRM rule requires that a company monitor the general level of controller activity on an annual basis. This presentation will describe a method for assessing tasks and mental workload.

Charles Alday

President and Human Factors
Consultant
Pipeline Performance Group

1:40 pm - 2:25 pm Control Room Management (CRM) & Related Best Practices

Today's control room will be required to transform, based on the new CRM rule. This presentation will examine the methodology of the best practices, including the situation awareness, high impact HMI, permission to operate and common graphics elements and the alarm management concepts.

Russel Treat

President/CEO
EnerSys

2:35 pm - 3:05 pm Professionalism in Communication for Pipeline Controllers

The Control Rule Management rule contains requirements for communication between controllers and to controllers. This presentation will provide a practical procedure and communication assessments for use with individuals and groups.

Charles Alday

President and Human Factors
Consultant
Pipeline Performance Group

Track F6

12:45 pm - 3:05 pm Transmission Measurement

12:45 pm - 1:30 pm An Alternative Formation of the Standard Orifice Equation for Natural Gas

An analysis of the standard orifice equation in AGA Report No. 3 using data for natural gas measured by the Southwest Research Institute will be presented. It appears that simpler forms exist for the expansion factor and for the discharge coefficient. The alternative expansion factor coefficient provides a single curve for all the data with an uncertainty of $\pm 0.02\%$ at 3σ . Finally, a simple fit for the discharge coefficient using the new expansion factor provides a correlation that fits the natural gas data within $\pm 0.3\%$ without using the Reynolds number.

Kenneth R. Hall

Professor & Associate Dean
Texas A&M University

Coauthor: Luis A. Coy

Texas A&M University

Coauthor: Diego E. Cristancho

Texas A&M University

Coauthor: Gustavo A. Iglesias-Silva

Texas A&M University

Program - Thursday, May 26

1:40 pm - 2:25 pm

Orifice Plate Flow Meter Diagnostics

Orifice plate meters are popular flow meters, but, traditionally, there have been no orifice meter self-diagnostic capabilities. The first simple yet powerful orifice meter diagnostic system will be presented. Theory, laboratory data from CEESI and field data from BP and ConocoPhillips natural gas terminals will be shown.

Dr. Richard Steven

DP Diagnostics

2:35 pm - 3:05 pm

CPA Flow Conditioners vs. Tube Bundles in Orifice Meters

This presentation will cover the process, visual evidence, audible noise and line segment balance of an operational natural gas meter station with three parallel 10-inch Daniel's senior fitting meter runs after the tube bundles were replaced with CPA flow conditioners.

Russell E. Anderson

Measurement Specialist
Chevron Pipe Line Co.

Track G1

3:25 pm - 5:15 pm

Utility & Customer Field Services/Construction & Maintenance

3:25 pm - 3:55 pm

Best Practices in Strategic Sourcing and Supply Chain Management to Decrease Cost and Increase Shareholder Value

The Mpower Group, in conjunction with Nicor Inc., will describe how Nicor transformed its procurement group from a tactical cost-center to a value-adding strategic function. Best practices for strategic sourcing, supply chain management and managing a successful transformation will be shared.

James L. Griffin

Vice President, Operations-Administration
Nicor Gas

Dalip Raheja

President and CEO
The Mpower Group

4:05 pm - 4:35 pm

Overall Employee Effectiveness: A Unique Approach to Quantifying Fieldwork Effectiveness

Union Gas' unique approach to measuring field work effectiveness that combines safety, quality and efficiency will be discussed.

Jeff Hodgins

Manager, Distribution Operations Support
Union Gas Ltd.

4:45 pm - 5:15 pm

Innovations in Pipe Replacement Processes

The utility industry continues to see major increases in ROW restoration costs. For this reason, gas companies have become more resourceful when it comes to infrastructure replacement and installation in lieu of conventional excavation. One of the newer processes is referred to as "Split and Pull" which in essence is the splitting of the old carrier pipe and inserting the new facility. Southwest Gas utilizes this process in all five of their operating divisions. Southwest Gas has also coupled the Split and Pull process with the use of keyhole technology. This presentation will demonstrate the cost savings, efficiency and safety aspects of these processes.

Kenny Pollock

Manager, Gas Operations Support Staff
Southwest Gas Corp.

Program - Thursday, May 26

Track G2

3:25 pm - 5:15 pm
Corrosion

3:25 pm - 3:55 pm
Enbridge's Results of the
CCPM ILI Assessment

4:05 pm - 4:35 pm
Lessons Learned From Filling
Casings

4:45 pm - 5:15 pm
Determining Yield Strength
Without Line Shutdown
The results of a multi-year
research project to develop
and test a methodology to
determine pipeline yield
strength without line shut
down and specimen cutout will
be presented.

Daniel A. Ersoy
R&D Director
GTI

Track G3

3:25 pm - 5:15 pm
Engineering

3:25 pm - 3:55 pm
Welding Repair Qualification
Procedures

Executing and implementing
welding repair qualification
procedures relative to API
1104 will be discussed.

Matt Boring P.E.
Senior Engineer
Edison Welding Institute

Joseph R. Ryan
Manager - Gas Engineering
and Planning
E.ON U.S.

4:05 pm - 4:35 pm
Distribution New Construction
Issues from a Contractor
Perspective

The Operator Qualification
construction-contractor
changes from a pipeline
contractor perspective will be
presented.

John Tully
Regional Manager
NPL Construction Co.

Dan Weakland
Chief Officer, Safety, Quality &
Regulatory Affairs
NPL Construction Co.

4:45 pm - 5:15 pm

Data Capture for DIMP

This presentation will cover
new developments related to
data management for
implementation of a
Distribution Integrity
Management Program (DIMP).
The topics covered will include
a new, nonproprietary gas
distribution data model to
standardize asset and
operational data; best
practices for identifying and
organizing data for DIMP; and
the Gas Technology Institute's
Intelligent Utility System
research program that is using
smart phones, smart tags and
cloud computing to reduce the
cost and improve the quality of
data collection for DIMP.

Alicia M. Farag
Program Manager
GTI

Robert McElroy P.E.
Vice President
New Century Software, Inc.

Program - Thursday, May 26

Track G4

3:25 pm - 5:15 pm Leak Detection/Storage

3:25 pm - 3:55 pm Airborn Pipeline Leak Detection

This presentation will focus on realSens, a patented technology that senses natural gas in the atmosphere. Mounted on a helicopter and flying at 1,000 feet and 65 miles per hour, realSens has been proven to detect leak rates as low as 3-4 SCFM. Survey reports are very detailed and dynamically geo-referenced on Google Earth or other GIS platforms. ☒

Gordon Lair

V.P. of Sales North America
Synodon

4:05 pm - 4:35 pm Affects of the Development of the Marcellus Shale on the Gas Storage Industry

4:45 pm - 5:15 pm High Resolution Logging Tools and How Their Use Has Affected Well Workovers

A comparison of results from using different corrosion well logging tools at National Fuel Gas Supply Corporation will be discussed.

Ramon P. Harris Jr.

Assistant Vice President
National Fuel Gas Supply Corp.

Steve Knapp

Assistant Geologist
National Fuel Gas Supply Corp.

Track G5

3:25 pm - 5:15 pm Supplemental Gas

3:25 pm - 3:55 pm DOE/Sandia Laboratories LNG Fire and Damage Testing and Modeling

This presentation will cover testing and analysis for DOE of LNG spill and fire on water including thermal insulation damage, cryogenic ship damage and hazards modeling.

Mike Hightower

Distinguished Member of the
Technical Staff
Sandia Laboratories

4:05 pm - 4:35 pm A Review of LNG Storage Tank Rollover

Rollover in LNG storage tanks is discussed in many industry publications and forums but is often incompletely or inadequately understood. This presentation will provide a review of the phenomenon of LNG tank rollover, its potential consequences, mitigation approaches and new issues associated with gas quality. The discussion also will cover past and current literature on rollover, new information from U. S. and overseas sources as it pertains to contemporary LNG storage issues and the potential implications for the future of LNG storage designs and operations.

Ted A. Williams

Director of Codes, Standards
and Technical Support
American Gas Association

4:45 pm - 5:15 pm LNG 17 Conference

The agenda for the upcoming LNG 17 conference being held in Houston, Texas, April 16-19, 2013, will be reviewed.

Kirsty Prentice

Project Manager
CWC Group Limited

Ted A. Williams

Director of Codes, Standards
and Technical Support
American Gas Association

Program - Thursday, May 26

Track G6

3:25 pm - 5:15 pm Transmission Measurement

3:25 pm - 3:55 pm Exploring a 'Total Energy Concept' for Natural Gas Metering

The theory supporting a Total Energy Measurement Concept for natural gas metering systems deploying both turbine and UFM flow meters in-series will be discussed as will the first-stage laboratory results for an installed system, with an emphasis on general principles, current and working standards/recommendations, and related laboratory results that were recorded during actual calibrations.

Martin Bragg

Group Division Director
Elster-Instromet N.V.

Coauthor: Arend Herwijn

Elster-Instromet

Coauthor: Arjan Stehouwer

Elster-Instromet

Coauthor: Jeff Tilden

Elster-Instromet

4:05 pm - 4:35 pm

Accuracy and Performance Effects of Two Ultrasonic Meters in Series

The test carried out to quantify the installation effects of two ultrasonic meters in series — two 12-inch Daniel's Senior Sonic meters and two 12-inch SICK Maihak Flowsic 600 meters — will be described. The performance of each meter in different configurations was compared with the original meter calibration data.

Matt Byford

Rotational Development
Engineer
Enterprise Products Co.

Coauthor: Dan Fahey

Enterprise Products Co.

Coauthor: Ted Glazebrook

Enterprise Products Co.

Coauthor: Lonnie Grady

Enterprise Products Co.

Coauthor: Jeff Gruber

Enterprise Products Co.

Coauthor: Russell Terry

Enterprise Products Co.

4:45 pm - 5:15 pm

How Today's Gas Ultrasonic Meter Handles Compressor Pulsations

The performance (accuracy shift) when an 8-inch SICK ultrasonic meter is subjected to a series of severe pulsations and the test results with respect to pulsation frequency and various transducer sample rates will be discussed. Testing was performed at the NOVA Chemicals' Gas Dynamic Test Facility.

John R. Lansing

Vice President, Ultrasonic
Products
SICK

Program - Thursday, May 26

Track H1

8:00 am - 9:40 am
DIMP

8:00 am - 8:45 am

DIMP Pilot Audits (panel)

This presentation will provide an update of the audit checklist and PHMSA's plans for DIMP implementation.

8:55 am - 9:40 am

DIMP Your Data

This presentation will address how DOT's Distribution Integrity Management Program (DIMP) regulations affect an operator's facility records. All of an operator's records will need to be considered when assessing risk. Consequently, this presentation will look at several common business processes and provide a DIMP Data Scorecard that enables an operator to gauge its performance.

Langley Willauer

CTO

InMaps

9:40 am - 10:00 am

Break

Track H2

8:00 am - 9:40 am
Gas Control

8:00 am - 8:45 am

Leak Detection: How Gas Controllers Can Identify a Pipeline Leak via the SCADA System

Mary Goodreau P.E.

Lead Engineer, Product Definition Manager
GL Noble Denton

8:55 am - 9:40 am

AGA Gas Control Survey Results: Isolation of Emergency Shut-Off Valves

9:40 am - 10:00 am

Break

Track H3

8:00 am - 9:40 am
Gas Utility Management

8:00 am - 8:45 am

CSA S250 Mapping of Underground Infrastructure Standard

The Canadian Standards Association's S250 standard, developed in response to a need in the utility industry to formalize mapping best practices in one concise document, will be discussed. This standard can help companies examine how they manage technical mapping records and either reduce or eliminate some similar efforts in this area that they may be using currently or considering for the future.

Jim Arnott

Municipal Coordination Advisor
Enbridge Gas Distribution Inc.

8:55 am - 9:40 am

Smart Energy Network

This presentation will discuss the role of natural gas in a smart energy network by focusing on what's happening in the UK and using it as a case study. Currently, there is a mandate to roll out smart gas and electric meters to all homes in Great Britain by 2020.

Don Chahbazpour

Director, Sustainable Gas Group
National Grid

9:40 am - 10:00 am

Break

Program - Friday, May 27

Track H4

8:00 am - 9:40 am Utility & Customer Field Services

8:00 am - 8:45 am

Improving Service Efficiency and Operational Performance
When properly implemented, telematics, or AVL, provides companies with location intelligence that can be used to reduce fuel and maintenance costs and reduce a company's carbon footprint. This presentation will cover the core components of implementing an advanced telematics solution, including the benefits of integrated location solutions, best practices and lessons learned.

Tim Taylor

COO
Telogis Fleet Management
Software

8:55 am - 9:40 am

Comgas Methodology in Illegal Gas Use

Comgas, the primary gas distribution utility in Brazil, uses a standard methodology to identify instances where customers may be either stealing natural gas or using it illegally. The presentation will share actions taken by the company to prevent and limit theft and improper usage of natural gas.

Benny Schlesinger

Security and Loss Prevention
Manager
Comgas

9:40 am - 10:00 am
Break

Track H5

8:00 am - 9:40 am Transmission Measurement

8:00 am - 8:45 am

Comparison and Analysis of Moisture Dewpoint Equations
The natural gas industry uses moisture analyzer techniques that output results in concentration (e.g. TDL) or dewpoint (e.g. chilled mirror). Gas companies use a variety of equations (published by ASTM and ISO for example) to convert their results. This presentation will compare the leading equations-of-state (ESO) for concentrations and pressures seen in typical natural gas pipelines.

Samuel Miller

Director, Marketing
SpectraSensors, Inc.

8:55 am - 9:40 am

The Impact of Corrosion and Fouling on the Performance of Ultrasonic Flow Meters Using Reflecting Paths

For ultrasonic flow meter users, the key question is not how well the meter performs in the lab, but how accurate the meter is after field installation and whether or not the meter's performance deteriorates over time. The different manifestations of fouling were taken into consideration in designing the new Altosonic V12 meter, which is equipped with acoustic paths specifically focused on the detection of fouling. This presentation will cover the design considerations.

Program - Friday, May 27

Jan G. Drenthen

Director
Krohne Oil & Gas

9:40 am - 10:00 am
Break

Track I1

10:00 am - 11:40 am
DIMP

10:00 am - 10:45 am
DIMP Plan Development

Erica Fiset

Sr. Project Manager - Pipeline
Integrity
Nicor Gas

10:55 am - 11:40 am
Leveraging GIS for DIMP
Implementation

This presentation will describe how one operator has customized a GIS based risk model to meet the pending requirements of DIMP Implementation. An evolving GIS system was used to analyze and compile historic system data, third party data sets and internal compliance data to drive towards defensible risk rankings, appropriate additional or accelerated measures and meaningful performance metrics.

Joe Karney

Supervisor, Integrity
Management
NW Natural

Track I2

10:00 am - 11:40 am
Gas Control

10:00 am - 10:45 am
Integrity Plan in Relation to
Gas Controller

10:55 am - 11:40 am
Check Metering /Comparing
To Pipeline

William Morrow

Solutions Manager
Telvent

Program - Friday, May 27

Track I3

10:00 am - 11:40 am
Reserved

Track I4

10:00 am - 11:40 am
Utility & Customer Field Services

10:00 am - 10:45 am
Consolidating Distribution Metering Services Using Second Generation Field-Proving Technology

Advances in distribution meter testing have led to the evolution of new utility “field-proving vehicles.” This presentation will focus on common field services, such as meter sample testing, periodic change outs and AMR/AMI installations, that may be consolidated to provide a complete turnkey solution to distribution meter management.

Gregory A. Germ

SNAP and Metrology Manager
Elster Meter Services

10:55 am - 11:40 am
Operations Planning for Emergency Response Using GPS Technologies

The numerous benefits that accrue from using a GPS-based location intelligence platform will be discussed. GPS, or telematics, permit gas utilities to respond more quickly to a leak and ensures that they have the right tools to do the job. A real-life case study will be presented.

Jason Koch

President, Telogis Fleet
Telogis

Track I5

10:00 am - 11:40 am
Transmission Measurement

10:00 am - 10:45 am
Correlation Tag Clamp-on Flowmeter for Low-Pressure Gas Applications

This presentation will cover clamp-on ultrasonic flowmeter technology used to measure natural gas flow up to 150 ft/s in low-pressure (30 psia or greater) metal pipelines using correlation of so-called “tags” of flow turbulence.

Peter G. Espina

Global Product Manager
GE Sensing & Inspection Technologies

10:55 am - 11:40 am
Clamp-on Gas Meters for Segmentation and Check Measurement

The presentation will cover improved procedures for correct installation of the meters, meter enhancements for signal processing and temperature correction of transducers, software enhancements for log files and trending, and nonintrusive spool meters and test results from labs.

Ron McCarthy

Product Manager, Gas
Siemens Industry, Inc.